Table S1. PTCL case characteristics and immunophenotyping results.

PTCL-ID	Cohort	Institution of Origin	IHC Classification	Molecular Classification	TBX21 IHC	CXCR3 IHC	GATA3 IHC	CCR4 IHC	Morphology	CD4	CD8	TIA	GZB	CD30	EBER (POS/NEG)	PD1	CXCL13	CD10	ICOS	SAP	BCL6	TCR	Gender	Age	Stage	Extranodal Sites	Serum LDH Level	IPI Score	Treatment
PTCL1	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-TBX21	Unclassifiable by GEP	POS	POS	POS	POS	Pattern3	NEG	POS	POS	NEG	POS	NEG	NEG	NEG	NA	NA	NA	NA	Polyclonal	Male	58	NA	NA	NA	NA	NA
PTCL2	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-TBX21	PTCL-TBX21	POS	POS	NEG	NEG	Pattern3	POS	NEG	NEG	NEG	NEG	POS	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	68	NA	NA	NA	NA	NA
PTCL3	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	Unclassifiable	Unclassifiable by GEP	NEG	NEG	NEG	NEG	NA	NEG	NEG	NEG	NEG	NEG	POS	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	67	NA	NA	NA	NA	NA
PTCL4	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-TBX21	PTCL-TBX21	POS	POS	POS	POS	Pattern3	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	74	NA	NA	NA	NA	NA
PTCL5	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-TBX21	PTCL-TBX21	POS	POS	POS	NEG	Pattern3	POS	NEG	POS	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Polyclonal	Female	62	NA	NA	NA	NA	NA
PTCL6	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-GATA3	PTCL-TBX21	NEG	NEG	POS	POS	Pattern1	POS	NEG	NEG	NEG	POS	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	63	NA	NA	NA	NA	NA
PTCL7	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-TBX21	PTCL-TBX21	POS	POS	POS	POS	Pattern4	NEG	POS	POS	POS	NEG	NEG	NEG	POS	NA	NA	NA	NA	Monoclonal	Male	29	NA	NA	NA	NA	NA
PTCL8	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-TBX21	Unclassifiable by GEP	POS	POS	POS	POS	Pattern3	POS	NEG	NEG	NEG	POS	POS	NEG	NEG	NA	NA	NA	NA	Polyclonal	Female	88	NA	NA	NA	NA	NA
PTCL9	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-TBX21	PTCL-TBX21	NEG	POS	NEG	NEG	Pattern3	NA	NA	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Polyclonal	Female	47	NA	NA	NA	NA	NA
PTCL10	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-TBX21	PTCL-TBX21	POS	POS	NEG	NEG	Pattern3	NEG	POS	POS	NEG	NEG	NEG	NEG	POS	NA	NA	NA	NA	Monoclonal	Male	55	NA	NA	NA	NA	NA
PTCL11	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-TBX21	Unclassifiable by GEP	POS	POS	POS	NEG	Pattern3	NA	NA	NEG	NEG	POS	NEG	NEG	POS	NA	NA	NA	NA	Monoclonal	Female	63	NA	NA	NA	NA	NA
PTCL12	TRAINING (GEP)	British Columbia Cancer Agency (Canada)	PTCL-TBX21	Unclassifiable by GEP	NEG	POS	POS	NEG	Pattern3	POS	NEG	POS	NEG	NEG	NEG	NEG	POS	NA	NA	NA	NA	Monoclonal	Male	75	NA	NA	NA	NA	NA
PTCL13	TRAINING (GEP)	University of Nebraska Medical Center (USA)	PTCL-TBX21	PTCL-GATA3	POS	NEG	POS	NEG	Pattern1	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	NA	NA	NA	NA	NA	NA
PTCL14	TRAINING (GEP)	University of Nebraska Medical Center (USA)	PTCL-GATA3	Unclassifiable by GEP	NEG	NEG	POS	POS	Pattern2	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	71	IV	>1	Normal	NA	CHOP/CHOP-Like
PTCL15	TRAINING (GEP)	University of Nebraska Medical Center (USA)	PTCL-TBX21	PTCL-TBX21	NEG	POS	POS	POS	Pattern1	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	NA	NA	NA	NA	NA	NA
PTCL16	TRAINING (GEP)	University of Nebraska Medical Center (USA)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	POS	POS	Pattern1	NA	NA	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	97	NA	NA	NA	NA	None
PTCL17	TRAINING (GEP)	University of Nebraska Medical Center (USA)	PTCL-TBX21	PTCL-TBX21	POS	POS	POS	POS	Pattern4	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	68	IV	≤1	NA	NA	CHOP/CHOP-Like
PTCL18	TRAINING (GEP)	University of Nebraska Medical Center (USA)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	POS	POS	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	NA	NA	NA	NA	NA	NA
PTCL19	TRAINING (GEP)	University of Nebraska Medical Center (USA)	PTCL-TBX21	PTCL-TBX21	POS	POS	NEG	NEG	Pattern3	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Polyclonal	Female	75	IV	>1	High	High (3-5)	CHOP/CHOP-Like
PTCL20	TRAINING (GEP)	University of Nebraska Medical Center (USA)	PTCL-TBX21	Unclassifiable by GEP	POS	POS	POS	POS	Pattern3	NEG	POS	POS	POS	NEG	POS	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	76	II	≤1	High	Low (0-2)	Other
PTCL21	TRAINING (GEP)	University of Nebraska Medical Center (USA)	PTCL-TBX21	PTCL-TBX21	POS	POS	POS	NEG	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	65	IV	≤1	High	Low (0-2)	Other
PTCL22	TRAINING (GEP)	University of Nebraska Medical Center (USA)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	POS	POS	Pattern2	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	70	III	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL23	TRAINING (GEP)	University of Wurzburg (Germany)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	POS	POS	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	75	NA	NA	NA	NA	NA
PTCL24	TRAINING (GEP)	University of Wurzburg (Germany)	PTCL-TBX21	PTCL-TBX21	POS	POS	POS	POS	Pattern4	NEG	POS	POS	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	62	NA	NA	NA	NA	NA
PTCL25	TRAINING (GEP)	University of Wurzburg (Germany)	PTCL-GATA3	PTCL-TBX21	NEG	NEG	POS	POS	Pattern3	NEG	POS	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	63	NA	NA	NA	NA	NA
PTCL26	TRAINING (GEP)	University of Wurzburg (Germany)	PTCL-GATA3	Unclassifiable by GEP	NEG	NEG	POS	POS	Pattern2	POS	NEG	NEG	NEG	POS	POS	NEG	NEG	NA	NA	NA	NA	NA	Male	86	NA	NA	NA	NA	NA
PTCL27	TRAINING (GEP)	University of Wurzburg (Germany)	PTCL-TBX21	PTCL-TBX21	POS	POS	NEG	NEG	Pattern4	POS	NEG	POS	POS	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Oligoclonal	Male	58	NA	NA	NA	NA	NA
PTCL28	TRAINING (GEP)	University of Wurzburg (Germany)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	POS	POS	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	60	NA	NA	NA	NA	NA
PTCL29	TRAINING (GEP)	University of Wurzburg (Germany)	PTCL-TBX21	PTCL-TBX21	POS	NEG	NEG	NEG	Pattern4	NEG	POS	POS	POS	POS	NEG	NEG	NEG	NA	NA	NA	NA	Polyclonal	Male	65	NA	NA	NA	NA	NA
PTCL30	TRAINING (GEP)	Hospital Clinic -Barcelona (Spain)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	POS	POS	Pattern3	POS	NEG	NEG	NEG	NEG	POS	NEG	NEG	NA	NA	NA	NA	NA	Female	55	NA	NA	NA	NA	NA
PTCL31	TRAINING (GEP)	Hospital Clinic -Barcelona (Spain)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	POS	POS	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	59	NA	NA	NA	NA	NA
PTCL32	Validation	University of Nebraska Medical Center (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern3	POS	NEG	NEG	NEG	NEG	POS	NEG	POS	NA	NA	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL33	Validation	University of Nebraska Medical Center (USA)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern3	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL34	TRAINING (GEP)	National Cancer Centre (Singapore)	PTCL-TBX21	PTCL-TBX21	POS	POS	POS	POS	Pattern1	NA	NA	POS	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	78	IV	NA	NA	NA	NA
PTCL35	TRAINING (GEP)	National Cancer Centre (Singapore)	Unclassifiable	PTCL-TBX21	NEG	NEG	NEG	NEG	Pattern1	POS	NEG	POS	NEG	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL36	TRAINING (GEP)	National Cancer Centre (Singapore)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	POS	POS	Pattern1	NA	NA	NEG	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL37	TRAINING (GEP)	National Cancer Centre (Singapore)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	NEG	POS	Pattern2	POS	POS	NEG	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL38	TRAINING (GEP)	National Cancer Centre (Singapore)	PTCL-TBX21	PTCL-TBX21	NEG	POS	NEG	NEG	Pattern3	POS	POS	POS	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL39	TRAINING (GEP)	National Cancer Centre (Singapore)	PTCL-TBX21	PTCL-TBX21	NEG	POS	NEG	POS	Pattern3	NA	NA	POS	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	74	IV	NA	NA	NA	NA
PTCL40	TRAINING (GEP)	National Cancer Centre (Singapore)	PTCL-TBX21	PTCL-TBX21	POS	POS	NEG	NEG	Pattern3	NA	NA	POS	NA	NEG	NA	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL41	TRAINING (GEP)	National Cancer Centre (Singapore)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	POS	POS	Pattern2	POS	NEG	NEG	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL42	TRAINING (GEP)	National Cancer Centre (Singapore)	PTCL-GATA3	PTCL-GATA3	NEG	NEG	POS	NEG	Pattern1	POS	POS	NEG	NA	NEG	NA	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL43	TRAINING (GEP)	Université Paris-Est (France)	PTCL-TBX21	Unclassifiable by GEP	NEG	POS	NEG	NA	Pattern2	NA	POS	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	21	IV	NA	High	High (3-5)	NA
PTCL44	TRAINING (GEP)	Université Paris-Est (France)	Unclassifiable	PTCL-GATA3	NEG	NEG	NEG	NA	NA	NA	NA	NEG	NA	NA	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	77	III	NA	High	Low (0-2)	NA
PTCL45	TRAINING (GEP)	Université Paris-Est (France)	PTCL-TBX21	PTCL-GATA3	NEG	POS	NEG	NA	Pattern3	NA	NEG	NEG	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	59	IV	NA	High	High (3-5)	NA
PTCL46	TRAINING (GEP)	Université Paris-Est (France)	PTCL-TBX21	PTCL-TBX21	POS	NEG	NEG	NA	NA	POS	NA	NA	NA	POS	NA	NEG	NEG	NA	NA	NA	NA	NA	Male	57	IV	NA	High	High (3-5)	NA
PTCL47	TRAINING (GEP)	Université Paris-Est (France)	PTCL-TBX21	PTCL-TBX21	NEG	POS	NEG	NA	NA	POS	NEG	POS	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	35	I	NA	Normal	Low (0-2)	NA
PTCL48	TRAINING (GEP)	Université Paris-Est (France)	PTCL-TBX21	PTCL-TBX21	POS	POS	POS	NA	NA	NEG	POS	POS	POS	POS	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	67	III	NA	Normal	High (3-5)	NA
PTCL49	TRAINING (GEP)	Université Paris-Est (France)	PTCL-TBX21	PTCL-TBX21	POS	POS	NEG	NA	Pattern3	POS	NEG	POS	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	42	IV	NA	High	High (3-5)	NA
PTCL50	TRAINING (GEP)	Université Paris-Est (France)	PTCL-TBX21	PTCL-TBX21	POS	POS	NEG	NA	NA	NA	NEG	NA	NA	NA	NEG	NEG	NEG	NA	NA	NA	NA	Polyclonal	Male	71	III	NA	Normal	Low (0-2)	NA
PTCL51	TRAINING (GEP)	Université Paris-Est (France)	PTCL-TBX21	PTCL-TBX21	POS	POS	NEG	NA	Pattern3	POS	NEG	NA	NA	NA	POS	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	81	IV	NA	Normal	High (3-5)	NA
PTCL52	Validation	University of Nebraska Medical Center (USA)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern2	NEG	POS	POS	POS	NEG	POS	NEG	NEG	NA	NEG	NA	NA	NA	Male	45	II	≤1	High	Low (0-2)	CHOP/CHOP-Like
PTCL53	Validation	University of Nebraska Medical Center (USA)	PTCL-TBX21	NA	NEG	POS	NEG	POS	Pattern3	POS	NEG	NEG	NEG	NEG	POS	NEG	NEG	NA	NEG	NA	NA	NA	Female	49	III	≤1	High	Low (0-2)	CHOP/CHOP-Like
PTCL54	Validation	University of Nebraska Medical Center (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern1	POS	NEG	POS	NEG	NEG	POS	NEG	NEG	NA	NEG	NA	NA	NA	Female	72	I	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL55	Validation	University of Nebraska Medical Center (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern1	POS	NEG	NEG	NEG	NEG	POS	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	67	III	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL56	Validation	University of Nebraska Medical Center (USA)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern1	POS	NEG	POS	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	NA	Male	NA	NA	NA	NA	NA	NA
PTCL57	Validation	University of Nebraska Medical Center (USA)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern1	POS	NEG	NEG	NEG	NEG	NA	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Female	61	III	≤1	High	Low (0-2)	CHOP/CHOP-Like
PTCL58	Validation	University of Nebraska Medical Center (USA)	PTCL-TBX21	NA	POS	POS	NEG	NEG	Pattern3	NA	NA	POS	NA	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Female	60	IV	≤1	High	Low (0-2)	CHOP/CHOP-Like
PTCL59	Validation	University of Nebraska Medical Center (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	49	IV	>1	High	High (3-5)	CHOP/CHOP-Like
PTCL60	Validation	University of Nebraska Medical Center (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	NEG	POS	POS	POS	NEG	POS	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	76	IV	>1	High	High (3-5)	CHOP/CHOP-Like
PTCL61	Validation	University of Nebraska Medical Center (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	NEG	POS	POS	POS	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	NA	NA	NA	NA	NA	NA
PTCL62	Validation	University of Nebraska Medical Center (USA)	Unclassifiable	NA	NEG	NEG	NEG	NEG	NA	POS	NEG	NEG	NEG	POS	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	62	II	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL63	Validation	Cleveland Clinic (USA)	PTCL-TBX21	NA	NEG	POS	POS	NEG	Pattern2	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL64	Validation	Cleveland Clinic (USA)	PTCL-TBX21	NA	NEG	POS	POS	NEG	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL65	Validation	Cleveland Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL66	Validation	Cleveland Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL67	Validation	Cleveland Clinic (USA)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern1	POS	NEG	NEG	NEG	NEG	POS	NEG	NEG	NA	NEG	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL68	Validation	City of Hope (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	POS	NEG	POS	POS	NEG	POS	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	46	NA	NA	NA	NA	NA
PTCL69	Validation	City of Hope (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern2	POS	NEG	NEG	NEG	NEG	POS	POS	NEG	NA	NEG	NA	NA	Monoclonal	Female	53	NA	NA	NA	NA	Others
PTCL70	Validation	City of Hope (USA)	PTCL-TBX21	NA	NEG	POS	NEG	POS	Pattern1	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	NA	Male	54	IV	NA	NA	NA	CHOP/CHOP-Like
PTCL71	Validation	City of Hope (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern4	POS	POS	POS	POS	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	59	NA	NA	NA	NA	NA
PTCL72	Validation	City of Hope (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern3	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	56	NA	NA	NA	NA	NA
PTCL73	Validation	City of Hope (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern2	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	NA	Male	68	NA	NA	NA	NA	CHOP/CHOP-Like
PTCL74	Validation	City of Hope (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern3	POS	POS	POS	POS	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	77	NA	NA	NA	NA	Others
PTCL75	Validation	City of Hope (USA)	PTCL-TBX21	NA	NEG	POS	NEG	POS	Pattern3	POS	POS	POS	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	56	NA	NA	NA	NA	Others
PTCL76	Validation	City of Hope (USA)	PTCL-TBX21	NA	NEG	POS	POS	POS	NA	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	63	NA	NA	NA	NA	NA
PTCL77	Validation	City of Hope (USA)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	NA	Male	54	IV	NA	NA	NA	CHOP/CHOP-Like
PTCL78	Validation	City of Hope (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	NA	Male	65	NA	NA	NA	NA	NA
PTCL79	Validation	City of Hope (USA)	PTCL-TBX21	NA	POS	POS	NEG	NEG	NA	POS	POS	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	58	NA	NA	NA	NA	Others
PTCL80	Validation	City of Hope (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	NA	NA	POS	NEG	NEG	POS	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	76	IV	NA	NA	NA	None
PTCL81	Validation	City of Hope (USA)	PTCL-GATA3	NA	NEG	NEG	POS	NA	Pattern1	POS	NEG	NEG	NEG	NEG	NEG	NEG	NEG	NA	NEG	NA	NA	Monoclonal	Male	71	NA	NA	NA	NA	NA
PTCL82	Validation	Bologna University (Italy)	PTCL-GATA3	NA	NEG	NEG	POS	NA	Pattern1	POS	NEG	NA	NA	POS	NA	POS	NEG	NEG	NA	NA	NEG	NA	Male	62	NA	NA	NA	NA	NA
PTCL83	Validation	Bologna University (Italy)	PTCL-TBX21	NA	POS	POS	NEG	NA	Pattern3	POS	NEG	NA	NA	NA	NEG	NEG	POS	NEG	NA	NA	NEG	NA	NA	NA	NA	NA	NA	NA	NA
PTCL84	Validation	Bologna University (Italy)	Unclassifiable	NA	NEG	NEG	NEG	NA	Pattern1	POS	NEG	NA	NA	POS	NA	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL85	Validation	Bologna University (Italy)	Unclassifiable	NA	NEG	NEG	NEG	NA	Pattern3	POS	NEG	NA	NA	NA	NA	NEG	POS	NEG	NA	NA	NEG	NA	NA	NA	NA	NA	NA	NA	NA
PTCL86	Validation	Bologna University (Italy)	PTCL-GATA3	NA	NEG	NEG	POS	NA	Pattern1	NEG	NEG	NEG	NEG	NEG	NA	NEG	NEG	NEG	NA	NA	NEG	NA	Male	40	NA	NA	NA	NA	NA
PTCL87	Validation	Bologna University (Italy)	PTCL-GATA3	NA	NEG	NEG	POS	NA	Pattern2	POS	NEG	NA	NA	NEG	NA	NEG	NEG	NEG	NA	NA	NEG	NA	Male	47	NA	NA	NA	NA	NA
PTCL88	Validation	Bologna University (Italy)	PTCL-TBX21	NA	NEG	POS	NEG	NA	Pattern3	POS	NEG	NA	NA	POS	NA	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL89	Validation	Bologna University (Italy)	PTCL-TBX21	NA	NEG	POS	NEG	NA	Pattern3	POS	POS	NA	NA	NEG	NA	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	33	NA	NA	NA	NA	NA
PTCL90	Validation	Bologna University (Italy)	PTCL-GATA3	NA	NEG	NEG	POS	NA	Pattern1	NA	NEG	NA	NA	NEG	NA	NEG	rare1	NEG	NA	NA	NEG	NA	Male	54	NA	NA	NA	NA	NA
PTCL91	Validation	Bologna University (Italy)	PTCL-TBX21	NA	NEG	POS	NEG	NA	Pattern4	POS	NEG	NA	NA	POS	NA	NEG	NEG	NA	NA	NA	NA	Oligoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL92	Validation	Bologna University (Italy)	PTCL-TBX21	NA	NEG	POS	NEG	NA	Pattern3	NEG	POS	NA	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NEG	NA	Female	49	NA	NA	NA	NA	NA
PTCL93	Validation	Bologna University (Italy)	PTCL-GATA3	NA	NEG	NEG	POS	NA	Pattern1	POS	NEG	NA	NA	NEG	NA	NEG	NEG	NEG	NA	NA	NEG	NA	NA	NA	NA	NA	NA	NA	NA
PTCL94	Validation	Bologna University (Italy)	PTCL-TBX21	NA	NEG	POS	NEG	NA	Pattern3	POS	NEG	NA	NA	POS	NA	NEG	NEG	NA	NA	NA	NA	Monoclonal	NA	NA	NA	NA	NA	NA	NA
PTCL95	Validation	Bologna University (Italy)	PTCL-TBX21	NA	NEG	POS	NEG	NA	Pattern3	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NEG	NA	NA	NEG	Monoclonal	Female	76	NA	NA	NA	NA	NA
PTCL96	Validation	Bologna University (Italy)	Unclassifiable	NA	NEG	NEG	NEG	NA	Pattern4	NEG	NA	NA	NA	NEG	NA	POS	NEG	NEG	NA	NA	NEG	Monoclonal	Male	41	NA	NA	NA	NA	NA
PTCL97	Validation	Bologna University (Italy)	PTCL-TBX21	NA	NEG	POS	NEG	NA	Pattern1	POS	POS	NA	NA	NA	NA	NEG	NEG	NEG	NA	NA	NEG	NA	Female	63	NA	NA	NA	NA	NA
PTCL98	Validation	Bologna University (Italy)	PTCL-GATA3	NA	NEG	NEG	POS	NA	Pattern2	NEG	NEG	NA	NA	POS	NEG	POS	NEG	NA	NA	NA	NEG	NA	Male	59	NA	NA	NA	NA	NA
PTCL99	Validation	Bologna University (Italy)	PTCL-GATA3	NA	NEG	NEG	POS	NA	NA	POS	NEG	NA	NA	NEG	NA	POS	NEG	NEG	NA	NA	NEG	NA	NA	NA	NA	NA	NA	NA	NA
PTCL100	Validation	Bologna University (Italy)	PTCL-GATA3	NA	NEG	NEG	POS	NA	NA	NEG	POS	NA	NA	NA	NA	POS	NEG	NEG	NA	NA	NEG	NA	NA	NA	NA	NA	NA	NA	NA
PTCL101	Validation	Université Paris-Est (France)	PTCL-GATA3	NA	NEG	NEG	POS	NA	NA	NEG	NEG	NEG	NA	NA	NEG	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL102	Validation	Université Paris-Est (France)	PTCL-GATA3	NA	NEG	NEG	POS	NA	NA	POS	NEG	NEG	NEG	POS	NEG	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL103	Validation	Université Paris-Est (France)	PTCL-TBX21	NA	NEG	POS	NEG	NA	NA	NEG	NEG	NA	NA	NA	NEG	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL104	Validation	Université Paris-Est (France)	PTCL-GATA3	NA	NEG	NEG	POS	NA	NA	NEG	POS	POS	NA	NA	NEG	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL105	Validation	Université Paris-Est (France)	PTCL-TBX21	NA	POS	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL106	Validation	Université Paris-Est (France)	PTCL-GATA3	NA	NEG	NEG	POS	NA	NA	NA	NA	NA	NA	NA	NA	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL107	Validation	Université Paris-Est (France)	PTCL-TBX21	NA	POS	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL108	Validation	Université Paris-Est (France)	PTCL-TBX21	NA	POS	POS	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NEG	NEG	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
PTCL109	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern4	POS	NEG	NEG	NA	NEG	NEG	POS	NEG	NEG	NEG	NA	NA	Monoclonal	Male	69	IV	>1	Normal	High (3-5)	NA
PTCL110	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern4	NA	NA	NA	NA	NA	NA	NEG	NEG	NA	NA	NA	NA	NA	Male	50	III	≤1	High	High (3-5)	NA
PTCL111	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern3	POS	NEG	POS	NEG	POS	NEG	NEG	NA	NEG	NEG	NA	NA	NA	Male	59	IV	≤1	High	Low (0-2)	NA
PTCL112	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	NA	POS	POS	NEG	NA	NA	NA	NEG	NEG	NA	NEG	NA	NA	NA	Male	58	II	≤1	Normal	Low (0-2)	NA
PTCL113	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	NA	POS	NEG	POS	NEG	NEG	NEG	NEG	NA	NA	NEG	NA	NA	Polyclonal	Male	45	IV	>1	High	High (3-5)	NA
PTCL114	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	POS	NEG	NA	NA	NEG	NA	NEG	NA	NEG	NA	NA	NA	Monoclonal	Female	34	IV	≤1	High	Low (0-2)	NA
PTCL115	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern3	NA	NA	NA	NA	NA	NA	NEG	NEG	NA	NA	NA	NA	NA	Male	66	III	≤1	Normal	High (3-5)	NA
PTCL116	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	NEG	POS	POS	POS	Pattern1	POS	NEG	NA	NA	NEG	NEG	NEG	NA	NEG	NA	NA	NA	Monoclonal	Male	79	II	≤1	Normal	Low (0-2)	NA
PTCL117	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	NEG	POS	NEG	NEG	NEG	POS	NEG	NA	NEG	NA	NA	NA	Polyclonal	Male	53	IV	≤1	High	High (3-5)	NA
PTCL118	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern3	POS	NA	NA	NA	NEG	NEG	NEG	NA	NEG	NA	NA	NA	NA	Male	54	II	≤1	Normal	Low (0-2)	NA
PTCL119	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	NEG	POS	POS	POS	Pattern1	NA	NA	NA	NA	NEG	NEG	NEG	NA	NEG	NA	NA	NA	NA	Male	71	IV	≤1	High	High (3-5)	NA
PTCL120	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	NEG	POS	POS	NA	POS	NEG	NA	NA	NEG	NEG	NEG	NA	NEG	NEG	NA	NA	Monoclonal	Female	56	III	≤1	Normal	Low (0-2)	NA
PTCL121	Validation	Mayo Clinic (USA)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern2	POS	NEG	NEG	NEG	NEG	NA	NEG	NA	NEG	NEG	NA	NA	NA	Female	78	III	≤1	NA	Low (0-2)	NA
PTCL122	Validation	Mayo Clinic (USA)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern1	NEG	NEG	NA	NA	NEG	NEG	POS	NA	NA	NEG	NA	NA	NA	Female	62	IV	>1	NA	High (3-5)	NA
PTCL123	Validation	Mayo Clinic (USA)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern2	POS	NA	NA	NA	NEG	NA	NEG	NA	NA	NEG	NA	NA	NA	Male	53	III	≤1	NA	Low (0-2)	NA
PTCL124	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	POS	NEG	POS	NEG	NA	NA	NA	NA	NA	NEG	NA	NEG	NA	NA	NEG	NA	NA	Monoclonal	Male	52	IV	≤1	NA	Low (0-2)	NA
PTCL125	Validation	Mayo Clinic (USA)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern2	NEG	NEG	NA	NA	NA	NA	NEG	NA	NA	NEG	NA	NA	NA	Female	64	IV	≤1	High	High (3-5)	NA
PTCL126	Validation	Mayo Clinic (USA)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern2	POS	NEG	NEG	NA	POS	NA	NEG	NA	NEG	NEG	NA	NA	NA	Male	46	I	≤1	Normal	Low (0-2)	NA
PTCL127	Validation	Mayo Clinic (USA)	PTCL-TBX21	NA	NEG	POS	NEG	NEG	Pattern3	NA	NA	NA	NA	NEG	NA	NEG	NEG	NA	NEG	NA	NA	NA	Male	41	I	≤1	Normal	Low (0-2)	NA
PTCL128	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern2	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	71	IV	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL129	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern1	POS	POS	NA	NA	POS	NEG	NEG	POS	NA	NA	NA	NA	Monoclonal	Female	82	I	>1	High	NA	CHOP/CHOP-Like
PTCL130	Validation	Aarhus University Hospital (Denmark)	Unclassifiable	NA	NEG	NEG	NEG	NEG	Pattern4	NEG	POS	NA	NA	NEG	NEG	NEG	POS	NA	NA	NA	NA	Monoclonal	Male	54	IV	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL131	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern3	POS	POS	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	71	I	>1	High	NA	CHOP/CHOP-Like
PTCL132	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	NEG	POS	POS	NEG	Pattern3	NEG	NEG	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	49	I	>1	High	NA	CHOP/CHOP-Like
PTCL133	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	NEG	POS	NEG	NA	NEG	POS	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	38	NA	≤1	Normal	NA	CHOP/CHOP-Like
PTCL134	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern2	NEG	POS	NA	NA	POS	NEG	NEG	POS	NA	NA	NA	NA	NA	Female	92	III	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL135	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern1	POS	POS	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	74	III	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL136	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	NA	NEG	POS	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	70	IV	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL137	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	NEG	NEG	NEG	Pattern3	POS	NEG	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	35	III	≤1	High	Low (0-2)	CHOP/CHOP-Like
PTCL138	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern1	NEG	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	54	IV	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL139	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	POS	NEG	NEG	Pattern3	POS	POS	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	25	I	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL140	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern3	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	66	III	≤1	NA	NA	CHOP/CHOP-Like
PTCL141	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern3	POS	NEG	NA	NA	NEG	NEG	NEG	POS	NA	NA	NA	NA	NA	Male	81	III	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL142	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	NEG	NEG	POS	Pattern4	NEG	POS	NA	NA	POS	NEG	NEG	POS	NA	NA	NA	NA	NA	Male	54	IV	>1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL143	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern1	POS	POS	NA	NA	NEG	POS	NEG	NEG	NA	NA	NA	NA	NA	Male	51	IV	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL144	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	NEG	NEG	NEG	Pattern3	NEG	POS	NA	NA	NEG	POS	NEG	NEG	NA	NA	NA	NA	NA	Female	75	IV	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL145	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern1	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	61	III	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL146	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern1	NEG	NEG	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	66	III	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL147	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern1	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	73	III	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL148	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	NEG	POS	POS	NEG	Pattern3	POS	POS	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	82	IV	>1	Normal	High (3-5)	CHOP/CHOP-Like
PTCL149	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern4	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	62	IV	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL150	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern1	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	67	NA	>1	High	NA	CHOP/CHOP-Like
PTCL151	Validation	Aarhus University Hospital (Denmark)	Unclassifiable	NA	NEG	NEG	NEG	NEG	Pattern1	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Polyclonal	Male	78	IV	>1	High	High (3-5)	CHOP/CHOP-Like
PTCL152	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	POS	NEG	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	58	II	≤1	High	Low (0-2)	CHOP/CHOP-Like
PTCL153	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	POS	NA	POS	NEG	NA	NA	POS	NEG	POS	NEG	NA	NA	NA	NA	Monoclonal	Female	58	II	≤1	High	Low (0-2)	CHOP/CHOP-Like
PTCL154	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern1	POS	POS	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	Oligoclonal	Male	28	IV	≤1	High	Low (0-2)	CHOP/CHOP-Like
PTCL155	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern3	POS	NEG	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	64	II	>1	High	NA	CHOP/CHOP-Like
PTCL156	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	POS	NEG	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	Polyclonal	Female	25	III	≤1	High	Low (0-2)	CHOP/CHOP-Like
PTCL157	Validation	Aarhus University Hospital (Denmark)	Unclassifiable	NA	NEG	NEG	NEG	NEG	Pattern3	POS	NEG	NA	NA	POS	POS	NEG	NEG	NA	NA	NA	NA	Monoclonal	Female	20	IV	>1	High	High (3-5)	Others
PTCL158	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern1	POS	POS	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	56	IV	>1	High	High (3-5)	CHOP/CHOP-Like
PTCL159	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	NA	POS	NEG	NA	NA	POS	NEG	POS	NEG	NA	NA	NA	NA	NA	Female	64	III	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL160	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern3	POS	POS	NA	NA	NEG	POS	NEG	NEG	NA	NA	NA	NA	NA	Female	25	IV	>1	High	High (3-5)	Others
PTCL161	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern3	POS	NEG	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	55	III	>1	NA	NA	CHOP/CHOP-Like
PTCL162	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	NEG	NEG	NEG	NA	NEG	POS	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	62	III	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL163	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	NEG	POS	POS	POS	Pattern1	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	65	II	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL164	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	POS	NEG	NEG	NA	POS	POS	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	79	IV	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL165	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	NEG	POS	NEG	POS	Pattern4	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	68	IV	≤1	High	High (3-5)	CHOP/CHOP-Like
PTCL166	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	NEG	Pattern2	NEG	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	82	NA	≤1	High	NA	Others
PTCL167	Validation	Aarhus University Hospital (Denmark)	Unclassifiable	NA	NEG	NEG	NEG	NEG	Pattern1	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	48	NA	>1	NA	NA	CHOP/CHOP-Like
PTCL168	Validation	Aarhus University Hospital (Denmark)	PTCL-GATA3	NA	NEG	NEG	POS	POS	Pattern1	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	80	I	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL169	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	POS	POS	NA	NA	POS	NEG	NEG	POS	NA	NA	NA	NA	NA	Male	37	IV	≤1	High	Low (0-2)	CHOP/CHOP-Like
PTCL170	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	POS	POS	POS	Pattern3	POS	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	67	IV	>1	High	High (3-5)	CHOP/CHOP-Like
PTCL171	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	POS	POS	POS	NEG	Pattern3	POS	POS	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	Monoclonal	Male	56	I	>1	High	NA	CHOP/CHOP-Like
PTCL172	Validation	Aarhus University Hospital (Denmark)	PTCL-TBX21	NA	NEG	POS	NEG	NEG	Pattern3	NEG	POS	NA	NA	POS	NEG	NEG	NEG	NA	NA	NA	NA	NA	Female	50	I	≤1	Normal	Low (0-2)	CHOP/CHOP-Like
PTCL173	Validation	Aarhus University Hospital (Denmark)	Unclassifiable	NA	NEG	NEG	NEG	NEG	Pattern3	NEG	NEG	NA	NA	NEG	NEG	NEG	NEG	NA	NA	NA	NA	NA	Male	28	II	≤1	Normal	Low (0-2)	CHOP/CHOP-Like

GEP: Gene Expression Profiling
IHC: Immunohistochemistry
LDH: Lactate Dehydrogenase
IPI: International Prognositc Index
TCR: T-cell Receptor

Table S2. Antibodies and immunostaining conditions.

Antibody	Clone (Source)	Primary Antibody (Dilution/Time)	Antigen Retrieval	Detection System / IHC Platform
TBX21	4B10 (SantaCruz)	1:250 15 mins	Epitope Retrieval-ER2 (pH 9) 30 mins	Refine Detection System (Leica) / Leica Bond-III (Leica Biosystems, Buffalo Grove, IL)
CXCR3	1C6/CXCR3 (BD Pharmangen)	1:125 60 mins	CC1 (pH 8.5) 24 mins	Optiview DAB IHC Detection System without amplifier / Ventana DISCOVERY ULTRA instrument (Ventana Medical Systems, Inc, Tucson, AZ)
GATA3	L50-823 (Roche Tissue Diagnostics)	RTU 40 mins	CC1 (pH 8.5) 40 mins	Optiview DAB IHC Detection System without amplifier / Ventana DISCOVERY ULTRA instrument (Ventana Medical Systems, Inc, Tucson, AZ)
CCR4	Polyclonal (Catalog# nbp1-86584)	1:50 60 mins	CC1 (pH 8.5) 24 mins	Optiview DAB IHC Detection System without amplifier / Ventana DISCOVERY ULTRA instrument (Ventana Medical Systems, Inc, Tucson, AZ)

RTU: ready to use

Table S3. Comparison of IHC marker positivity by GEP subgroup classification in the training cohort.

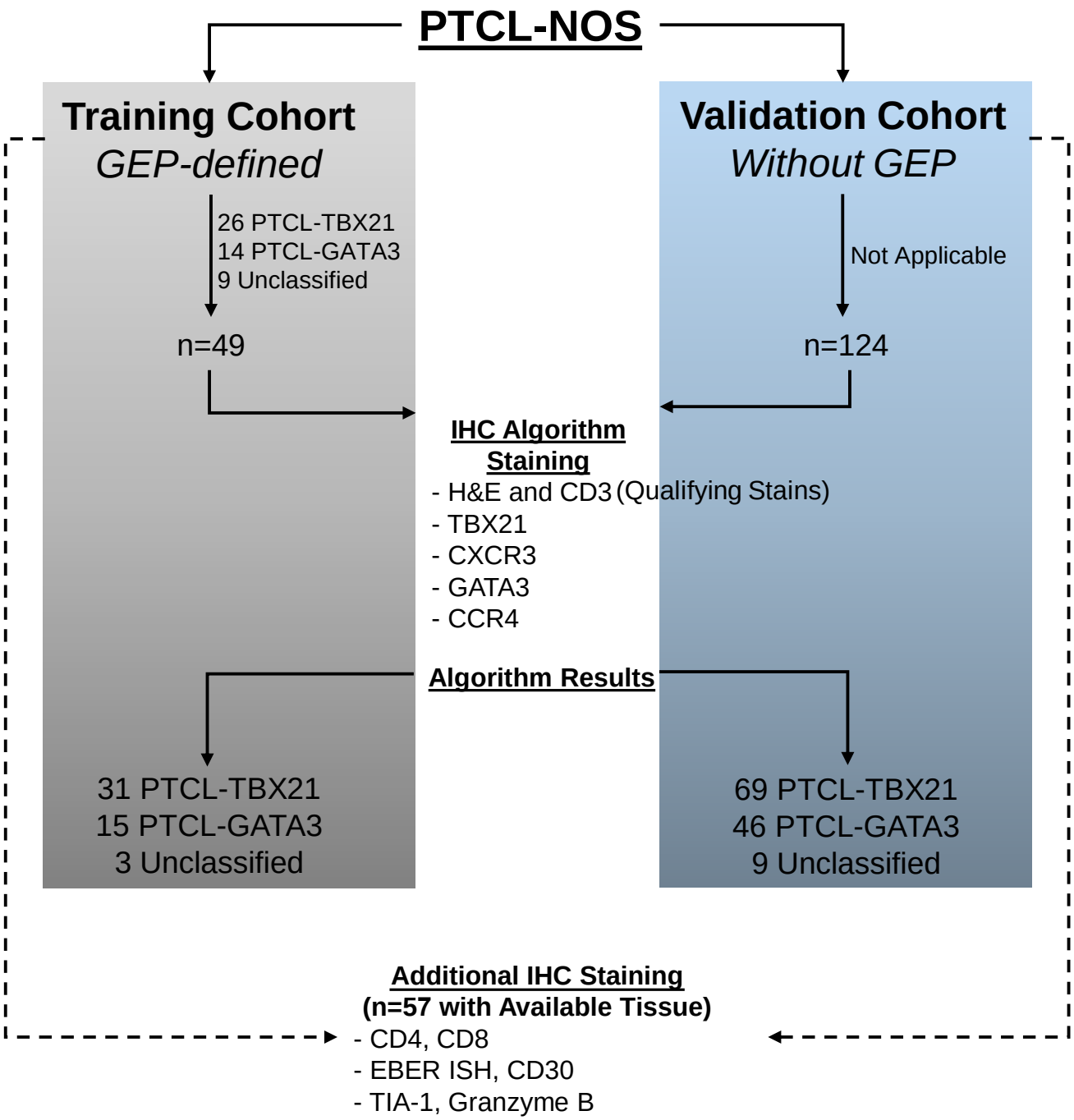
			Molecular Diagnosis by GEP					
			PTCL-GATA3 (n=14)		**PTCL-TBX21 (n=26)**		**Unclassifiable (n=9)**	**Total (n=49)**
GATA3	< 50%		3 (21.4%)		15 (57.7%)		2 (22.2%)	20 (40.8%)
	≥50%		11 (78.6%)		11 (42.3%)		7 (77.8%)	29 (59.1%)
TBX21	< 20%		13 (92.9%)		8 (30.8%)		5 (55.6%)	26 (53.1%)
	≥20%		1 (7.1%)		18 (69.2%)		4 (44.4%)	23 (46.9%)
CCR4	< 50%	n= 12	2 (16.7%)	n= 20	11 (55.0%)	n= 8	3 (37.5%)	n= 40 16 (40.0%)
	≥50%		10 (83.3%)		9 (45.0%)		5 (62.5%)	24 (60.0%)
CXCR3	< 20%		13 (92.9%)		5 (19.2%)		3 (33.3%)	21 (42.9%)
	≥20%		1 (7.4%)		21 (80.8%)		6 (66.7%)	28 (57.1%)

GEP: Gene Expression Profiling.

Table S4. Comparison of IHC markers and subtype characteristics by cohort.

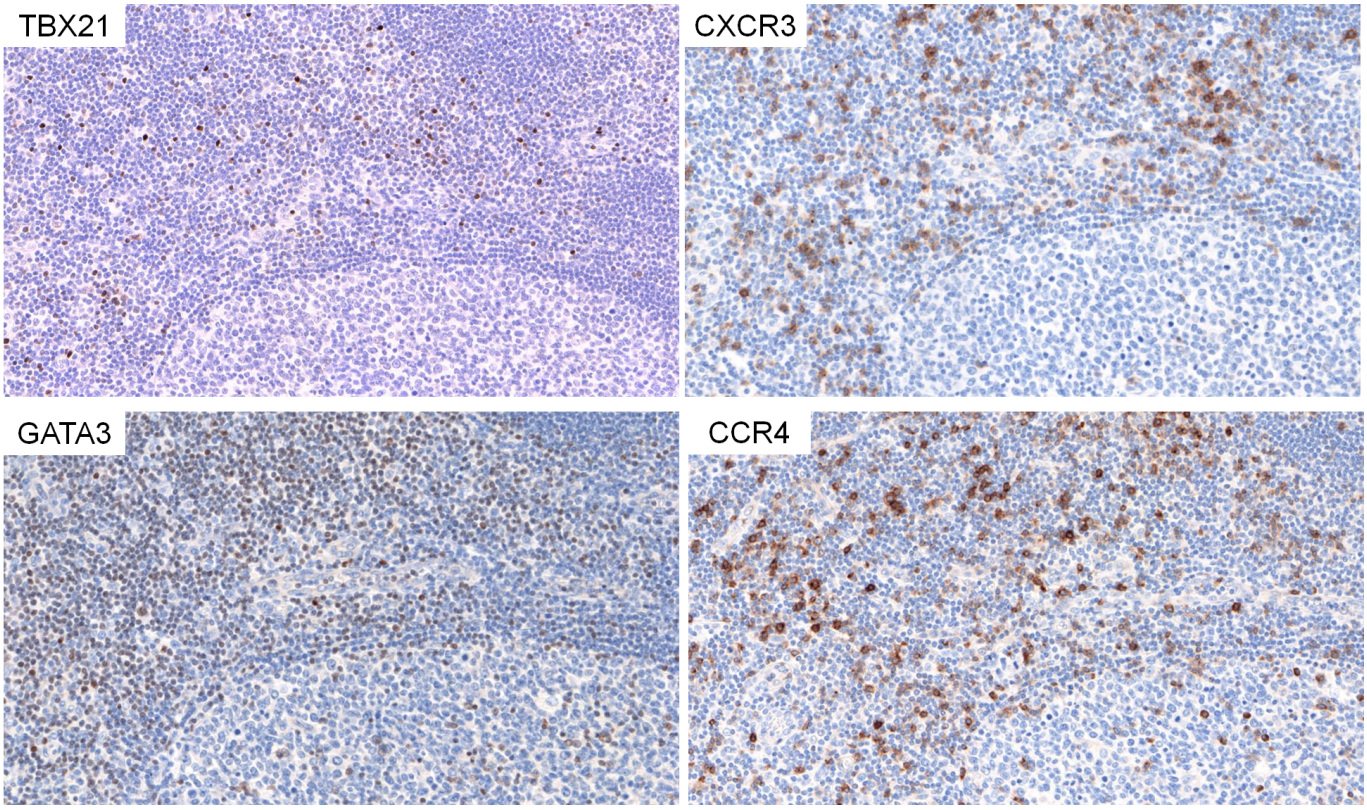
			COHORT			
			Training (n=49)		Validation (n=124)	p-value
GATA3	< 50%		20 (40.8%)		35 (28.2%)	0.11
	≥50%		29 (59.2%)		89 (71.8%)	
TBX21	< 20%		26 (53.1%)		77 (62.0%)	0.28
	≥20%		23 (46.9%)		47 (38.0%)	
CCR4	< 50%	n=40	16 (40.0%)	n= 96	51 (53.1%)	0.16
	≥50%		24 (60.0%)		45 (46.8%)	
CXCR3	< 20%		21 (42.9%)		64 (51.6%)	0.30
	≥20%		28 (57.1%)		60 (48.4%)	
IHC Classification	PTCL-GATA3		15 (30.6%)		46 (37.1%)	0.65
	PTCL-TBX21		31 (63.3%)		69 (55.7%)	
	Unclassifiable		3 (6.1%)		9 (7.3%)	

Supplemental Figure 1



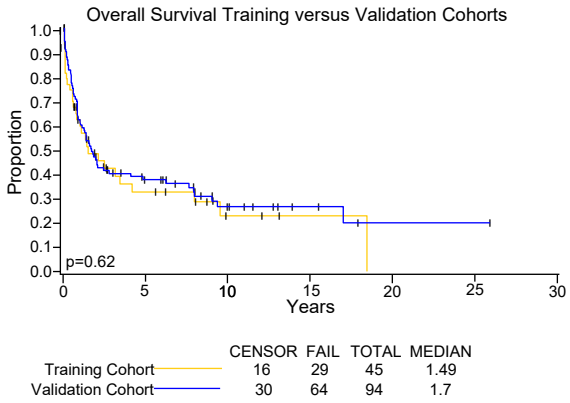
Supplemental Figure 1: Diagram of the study for inclusion of the cases in the training and validation cohorts and additional immunophenotyping.

Supplemental Figure 2



Supplemental Figure 2: Standardization of the immunostains for the IHC algorithm in tonsil tissue. Note the nuclear staining for TBX21 and GATA3, and membranous staining for CXCR3 and CCR4.

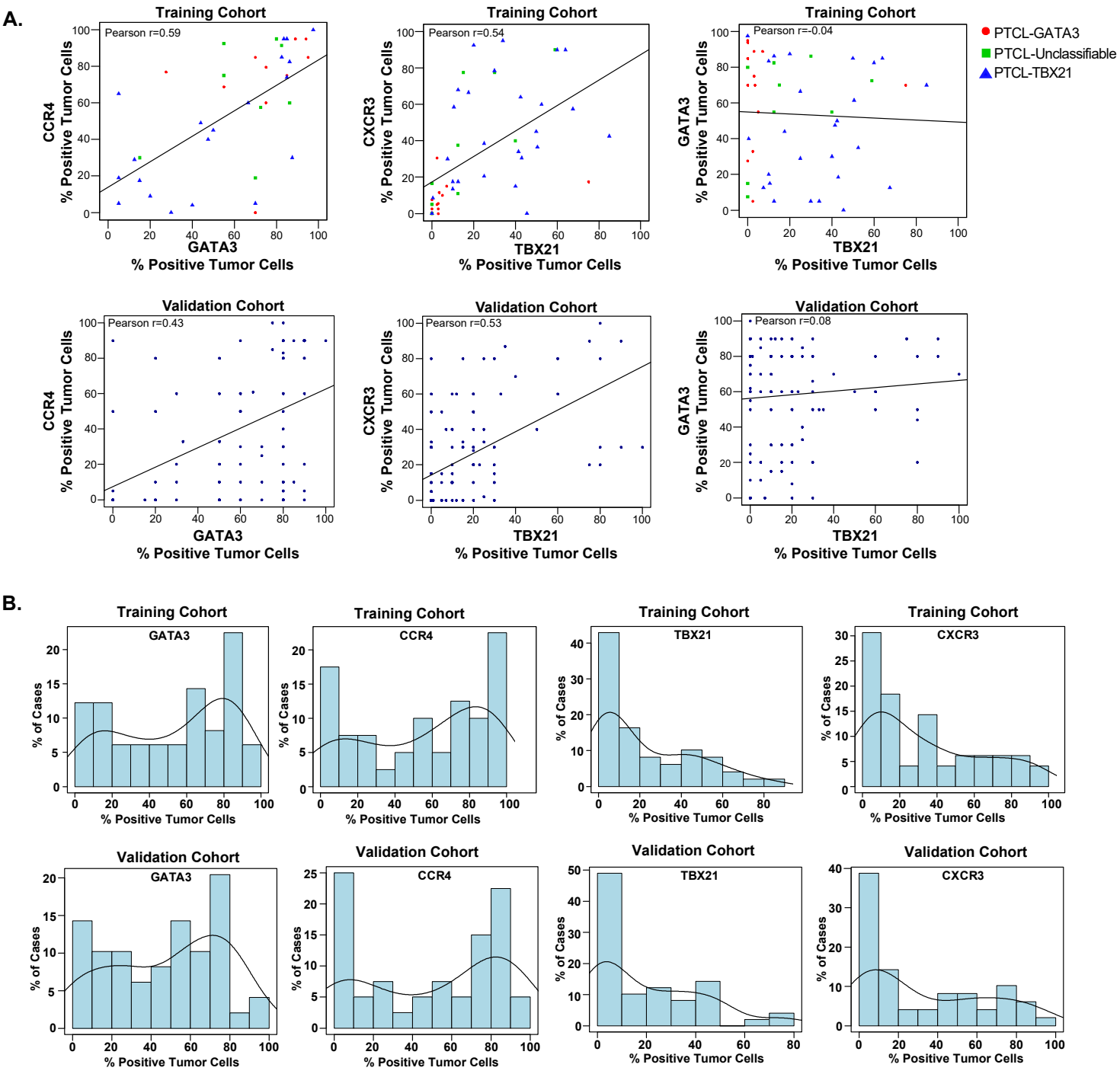
Supplemental Figure 3



	CENSOR	FAIL	TOTAL	MEDIAN
Training Cohort	16	29	45	1.49
Validation Cohort	30	64	94	1.7

Supplemental Figure 3: Overall survival of the training and validation cohorts. Similar OS was observed between the training and the validation cohorts.

Supplemental Figure 4

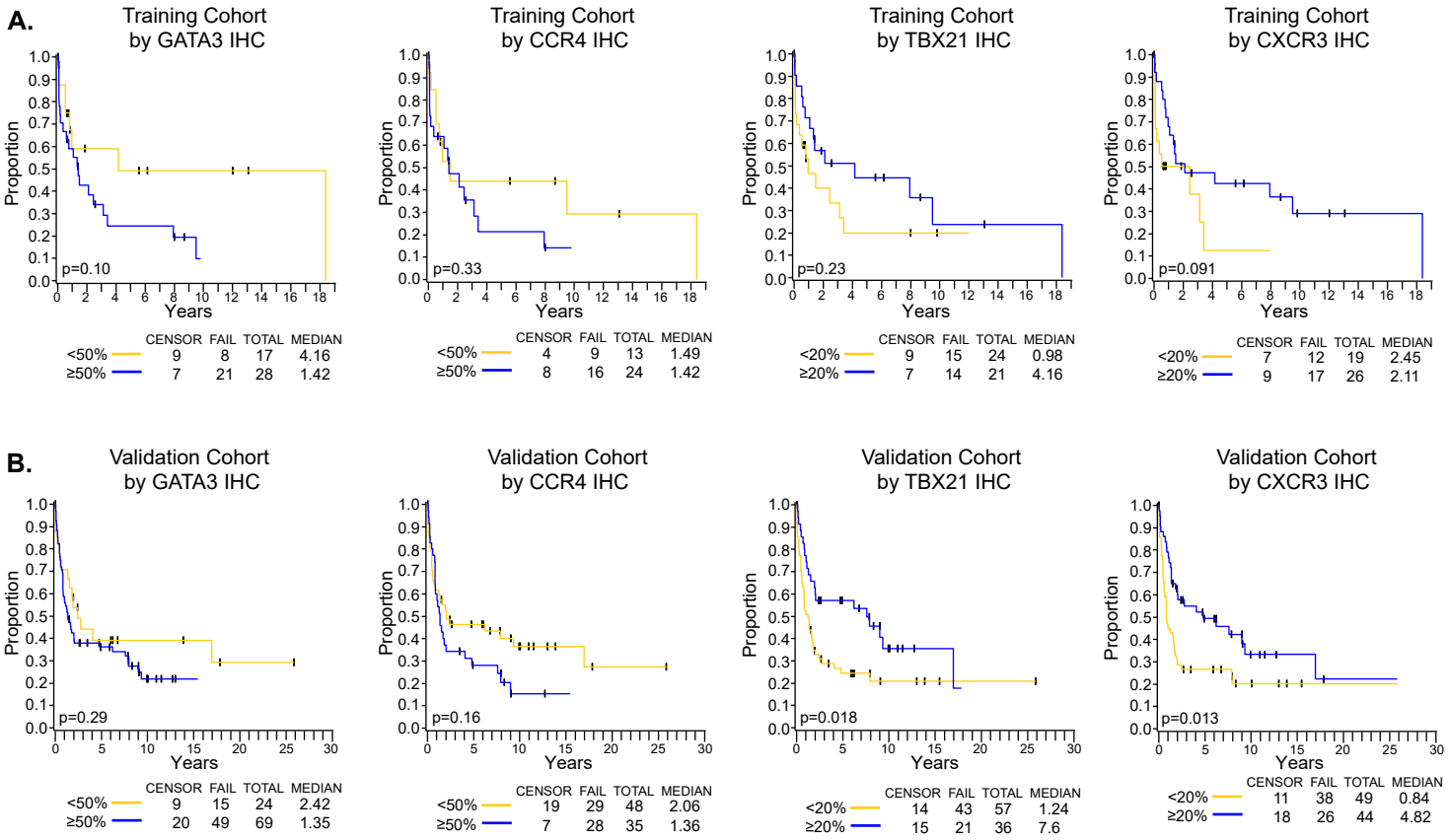


Supplemental Figure 4

4A: Correlation between expression of the transcription factors (GATA3 and TBX21) and their target proteins (CCR4 and CXCR3, respectively) in corresponding cases. Positive correlation was observed between GATA3 and CCR4, and between TBX21 and CXCR3 in the training and validation cohorts. No correlation was observed between TBX21 and GATA3.

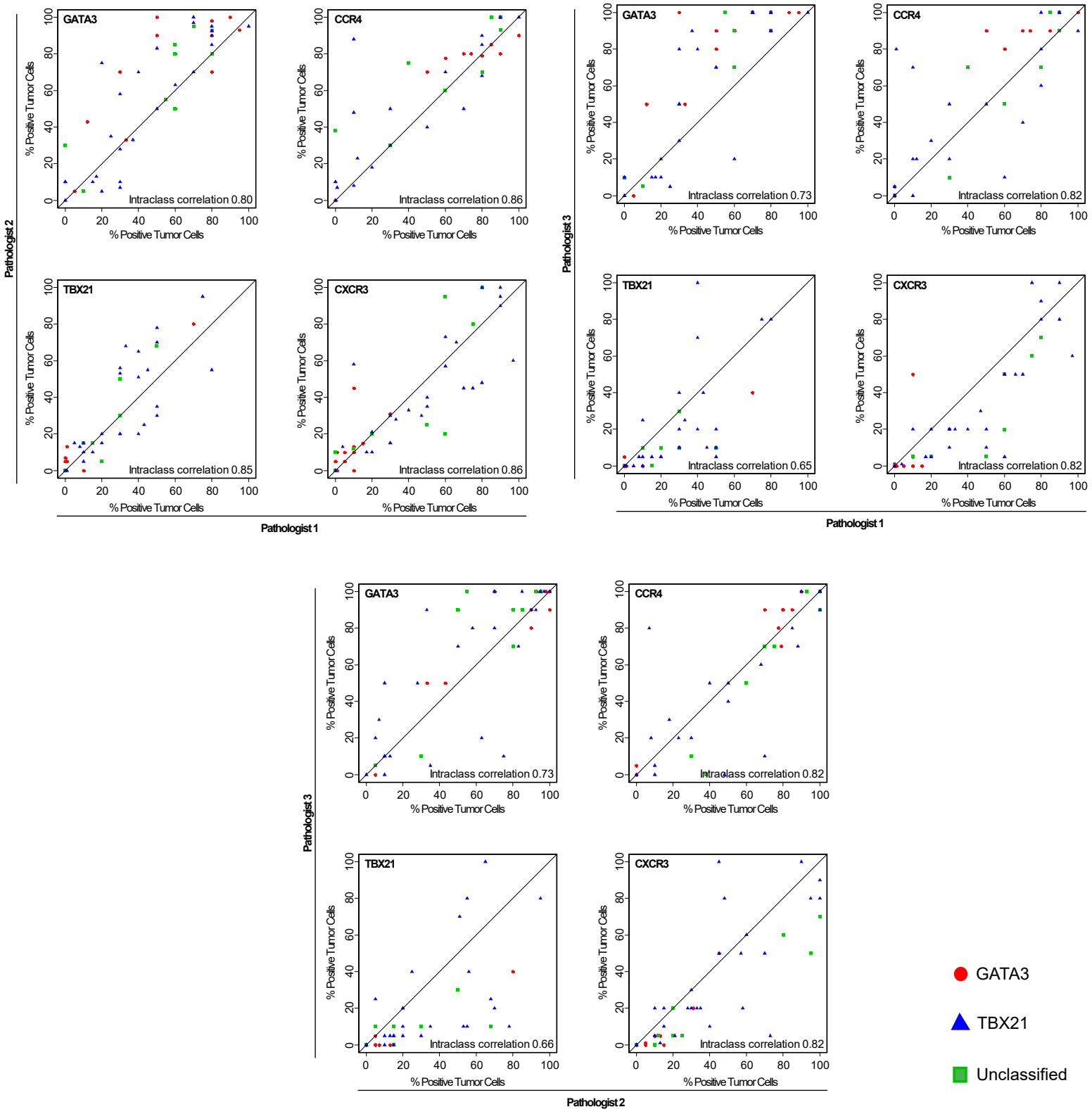
4B: Distribution of positivity of the different immunostains for the four selected antibodies. Similar trends of positivity were observed between GATA3 and CCR4. Less than 25% of the PTCL-NOS cases showed no or low expression of either GATA3 or CCR4, whereas ~50% of the cases showed no or low expression of TBX21 and CXCR3.

Supplemental Figure 5



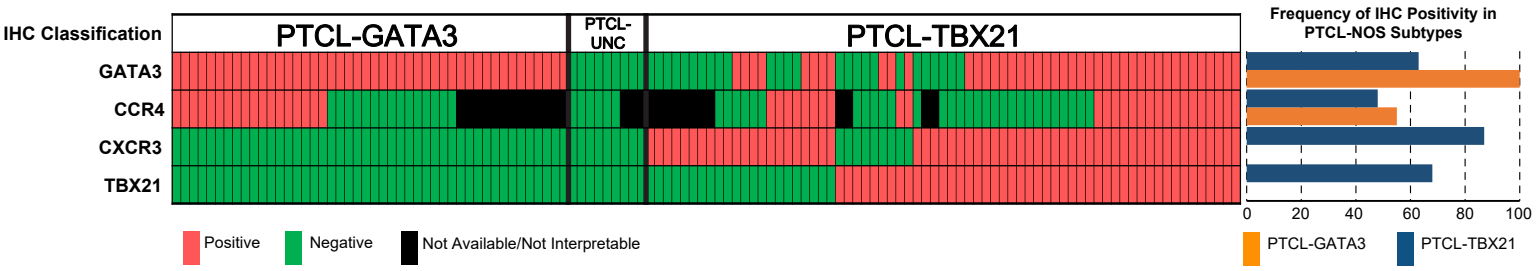
Supplemental Figure 5: Correlation of individual immunostains with overall survival. Similar trends of OS were observed for all IHC stains in the training (**A.**) and validation (**B.**) cohorts. TBX21 and CXCR3 showed a significant association with OS in the validation cohort, but not observed in the training cohort.

Supplemental Figure 6



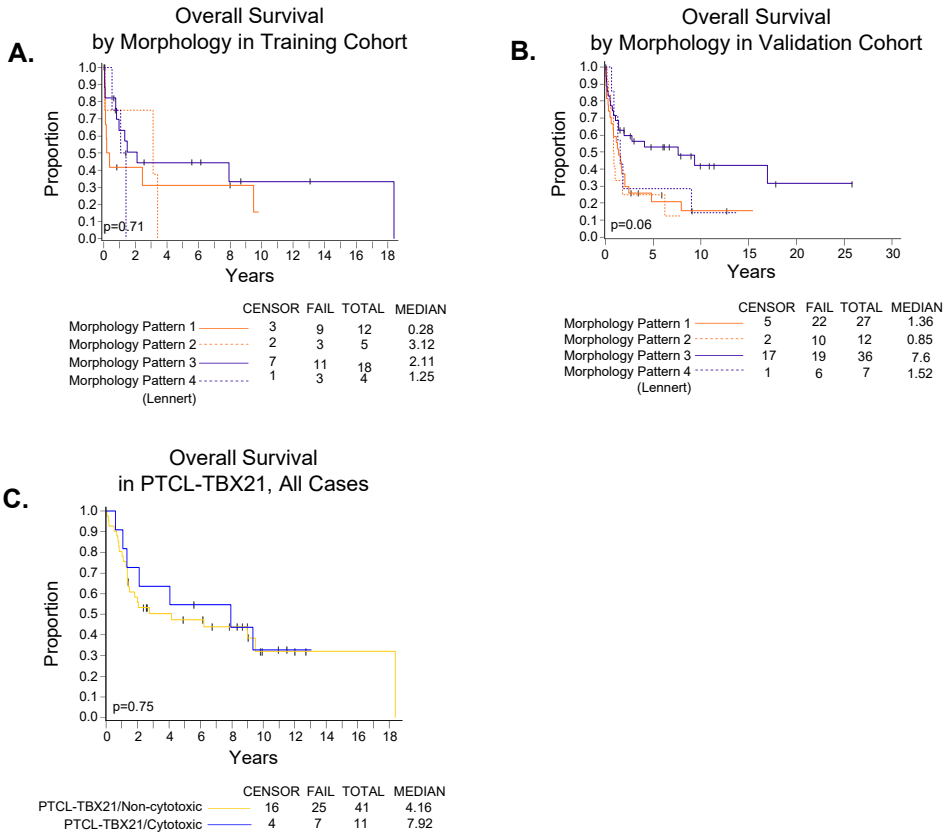
Supplemental Figure 6: Intraclass correlation of immunostains between three independent pathologists analyzed in pairs. Moderate to strong concordance was observed for the four immunostains.

Supplemental Figure 7



Supplemental Figure 7: Heatmap representation of algorithm immunostains and IHC algorithm classification in validation cohort cases. The frequency of the individual immunostain positivity in the validation cohort in the PTCL-subtypes is shown on the right.

Supplemental Figure 8



Supplemental Figure 8: Association of overall survival with morphological patterns (A-B) and with a cytotoxic phenotype (C). A non-significant trend (p=0.06) towards inferior OS was observed in the validation cohort for the monomorphic (1 and 2) and Lennert patterns, but was not significant in the training cohort (**A-B**). No difference in OS was observed in the cases with a cytotoxic immunophenotype when compared to non-cytotoxic PTCL-TBX21 (**C**).

Please find a list of the current Lymphoma/Leukemia Molecular Profiling Project (LLMPP) members:

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