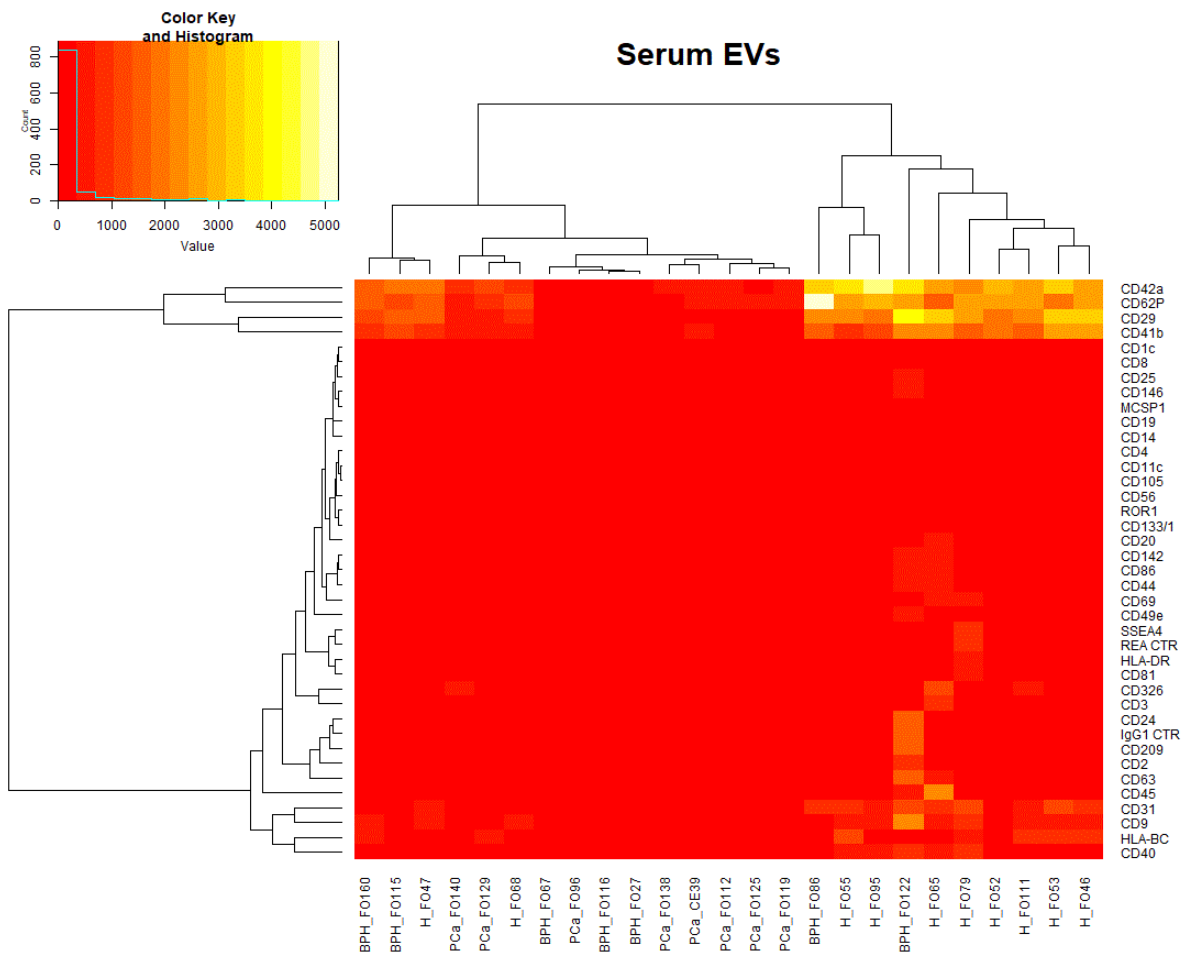
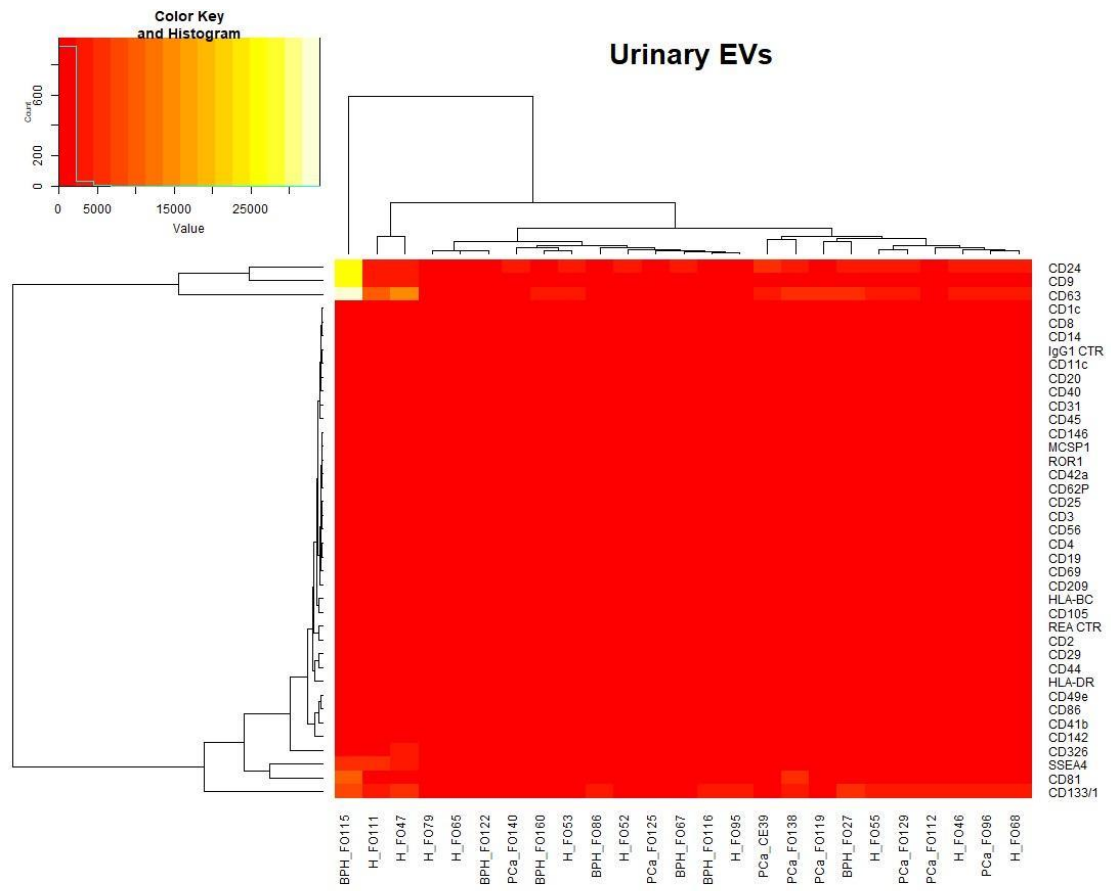


Suppl. Figure S1. Heatmap analysis of MFI of each serum EVs markers.



Suppl. figure S2. Heatmap analysis of MFI of each urinary EVs markers.



Suppl. Table S1. Prostate cancer case series summary.

	PCa	BPH	Healthy donors	<i>p-value</i>
<b>n</b>	10	10	10	
<b>Median age, y (range)</b>	73 (68-83)	74 (61-83)	53 (50-80)	0.067
<b>Median baseline PSA level, ng/mL (range)</b>	8.78 (0.49-118.40)	5.18 (1.38-11.00)	0.92 (0.59-5.29)	0.007
<b>Gleason score</b>		-	-	-
≤6	3			
>6	7			
<b>Stage</b>		-	-	-
pT2	5			
pT3	2			
Unknown	3			

PCa: prostate cancer patients; BPH: benign prostatic hyperplasia patients; PSA: prostate specific antigen

lementary Table S2: Median and mean values of fluorescence intensity of each marker in all serum EVs samples.

	Healthy donors		BPH		PCa	
	Median value	Mean value	Median value	Mean value	Median value	Mean value
CD3	0	89.8	0	0	0	0
CD4	10.5	15	14	41.5	12.5	14.6
CD19	0	34.5	0	24.8	0	9.7
CD8	11	12.2	7.5	59.6	6.5	12.6
HLA-DR	5.5	67.3	6.5	126.8	13.5	69.4
CD56	0	13.1	0	5.5	0	0
CD105	0	0	0	9.4	0	0
CD2	0	0.1	0	97.3	0	0.9
CD1c	8.5	11.3	12	59.4	7.5	19
CD25	0	0	0	38.7	0	0
CD49e	190.5	175.3	10	177.4	3.5	34.1
ROR1	9.5	26.9	0	7.1	0	5.1
CD209	0	0	0	144.5	0	0
CD9	471.5	496.6	188.5	413.6	59.5	121.4
SSEA4	7	105.2	6	219.5	18.5	69.5
HLA-BC	478	509.2	131.5	281.7	69.5	115.4
CD63	114	166.5	43.5	215.1	22.5	21.9
CD40	233	390.4	78	167.6	25	60.3
CD62P	2505	2205.8	922	1683.9	462.5	708.8
CD11c	0	0	0	10.8	0	0.4
CD81	17.5	70.5	0	94.8	0.5	40.6
MCSP1	0	12.7	3	36.3	15	12
CD146	3.5	19.9	4	44.2	0	9.6
CD41b	1601.5	1597.2	477	873.5	251.5	322.6

CD42a	2664	2810.4	1286	1690.1	602	1510.7
CD24	14.5	62.4	0	150	0	2.2
CD86	0	48.3	0	115.7	0	0
CD44	16	52.2	0	49.8	0	6.7
CD326	27.5	183.1	0	30.4	0	63.2
CD133/1	0	12.3	0	8.7	0	0
CD29	2281	2364.4	771.5	1291.9	280	516.2
CD69	79	135.2	32.5	62.4	25	32
CD142	11.5	68.1	0	40.8	0	0
CD45	34	268	0	140.5	0	0.8
CD31	647.5	696.1	194.5	361.6	66	110.7
REA CTR	2	95	14	188.8	25	91.7
CD20	30	65.3	0	4.4	0	2.4
CD14	26	35.3	21.5	105.5	0	12.8
IgG1 CTR	4.5	33.3	0	167.7	0	1.3

**Supplementary Table S3: Median and mean values of fluorescence intensity of each marker in all urinary supernatant EVs samples.**

	Healthy donors		BPH		PCa	
	Median value	Mean value	Median value	Mean value	Median value	Mean value
CD3	0	7.3	7	60.25	1	22.375
CD4	3	4.5	5.5	76	4.5	9
CD19	0	0	0	56.875	0	2.75
CD8	10.5	10.6	15	90.5	5.5	9.875
HLA-DR	88.5	108.9	71	240.875	94.5	129.125
CD56	3	17	13	51	22.5	26.625
CD105	39.5	76.3	38	156.875	52.5	79.625
CD2	37.5	79.3	82	192.375	103	146.5
CD1c	0	8.4	3.5	89.875	4.5	12.875
CD25	1	14.5	4.5	54.875	1	25.875
CD49e	8.5	25.3	29.5	226.625	9.5	30.75
ROR1	11	13.5	32	70	20	15.25
CD209	14	31.6	22	93.75	35.5	61.625
CD9	346.5	994	252	3525.5	1038.5	1076
SSEA4	429.5	1117.3	375	1173.875	619	724.625
HLA-BC	32.5	65.8	25	137.25	130.5	130.75
CD63	2753.5	3934.8	2062.5	6249.625	4197.5	4334.5
CD40	12	30.9	8.5	114.625	23	25.125
CD62P	2	7.9	10.5	45.875	2	13.5
CD11c	4.5	8.6	23	115.625	3	11.75
CD81	367	395.7	339	1403.375	639	1184.125
MCSP1	0	1.1	5	54.75	2.5	6
CD146	1.5	5.7	5	57.75	0.5	6.375

<b>CD41b</b>	96.5	102.8	117	239.375	94.5	127.125
<b>CD42a</b>	5	9.3	12.5	53.125	23.5	27.875
<b>CD24</b>	2466	2242.7	2258.5	4910.875	2388	2914.25
<b>CD86</b>	8	16	65.5	207.25	48.5	43.75
<b>CD44</b>	24.5	79.3	26	161.25	37	37.875
<b>CD326</b>	327.5	715.5	253	436.5	319.5	345.125
<b>CD133/1</b>	2483	2331	2683	3269.25	2151.5	2148.375
<b>CD29</b>	20.5	136	31	130.625	41.5	38.875
<b>CD69</b>	19	26.5	18	76.5	13	16.625
<b>CD142</b>	17.5	28.7	34	314.25	47	47.5
<b>CD45</b>	7	24.9	19	134.375	19.5	36
<b>CD31</b>	15.5	36.6	50.5	109.5	49.5	56.5
<b>REA CTR</b>	28.5	120.1	62.5	169	192.5	252
<b>CD20</b>	17	40.3	38	117.5	56	50.875
<b>CD14</b>	23	21.9	54.5	109.5	7.5	19.125
<b>IgG1 CTR</b>	8	18.9	16.5	119.25	21.5	24.125