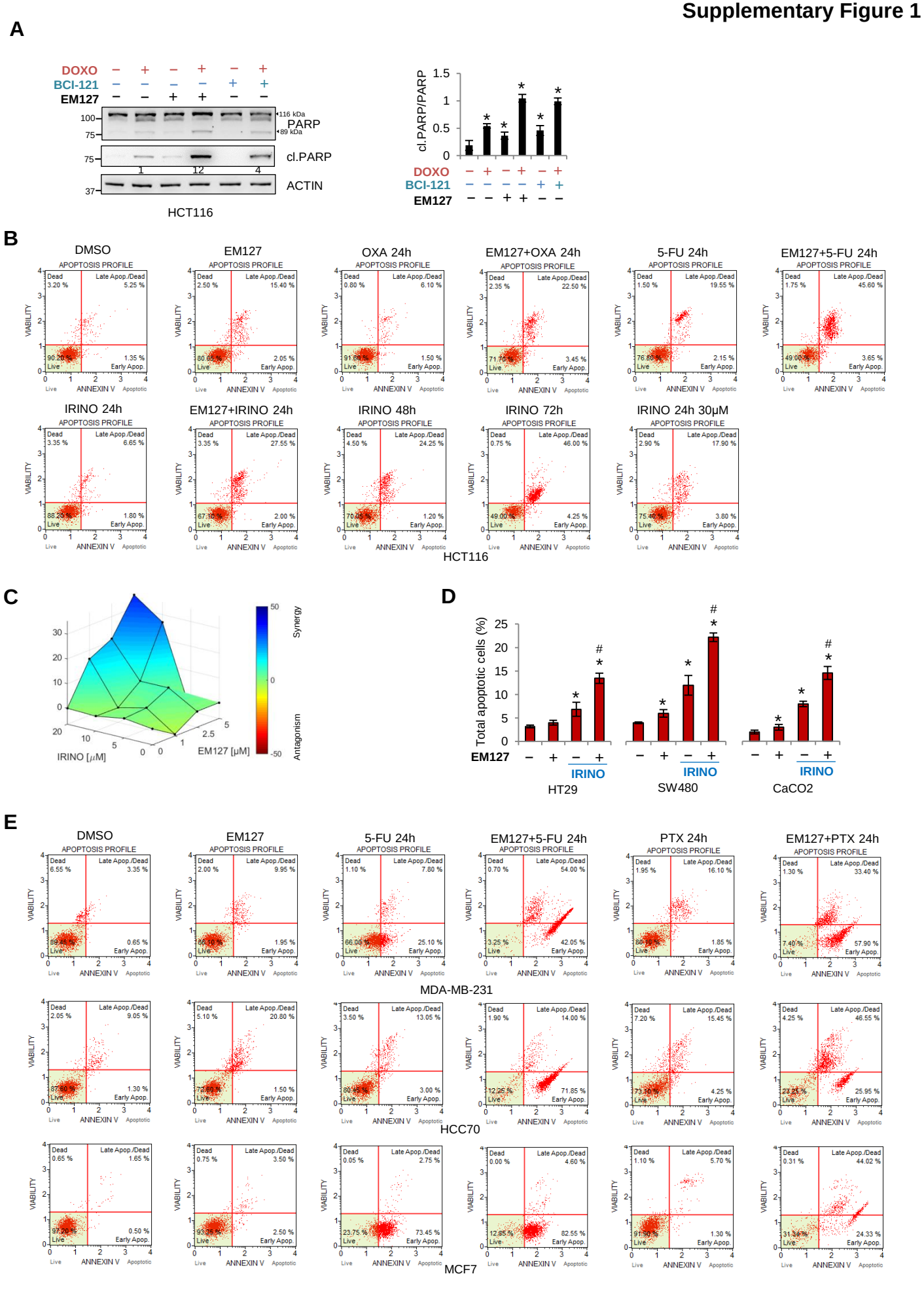
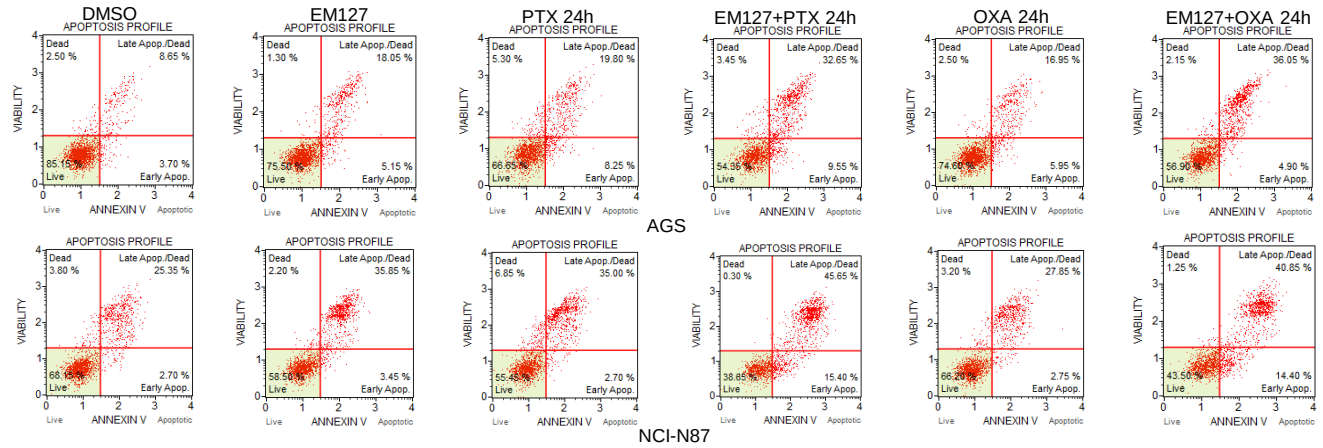
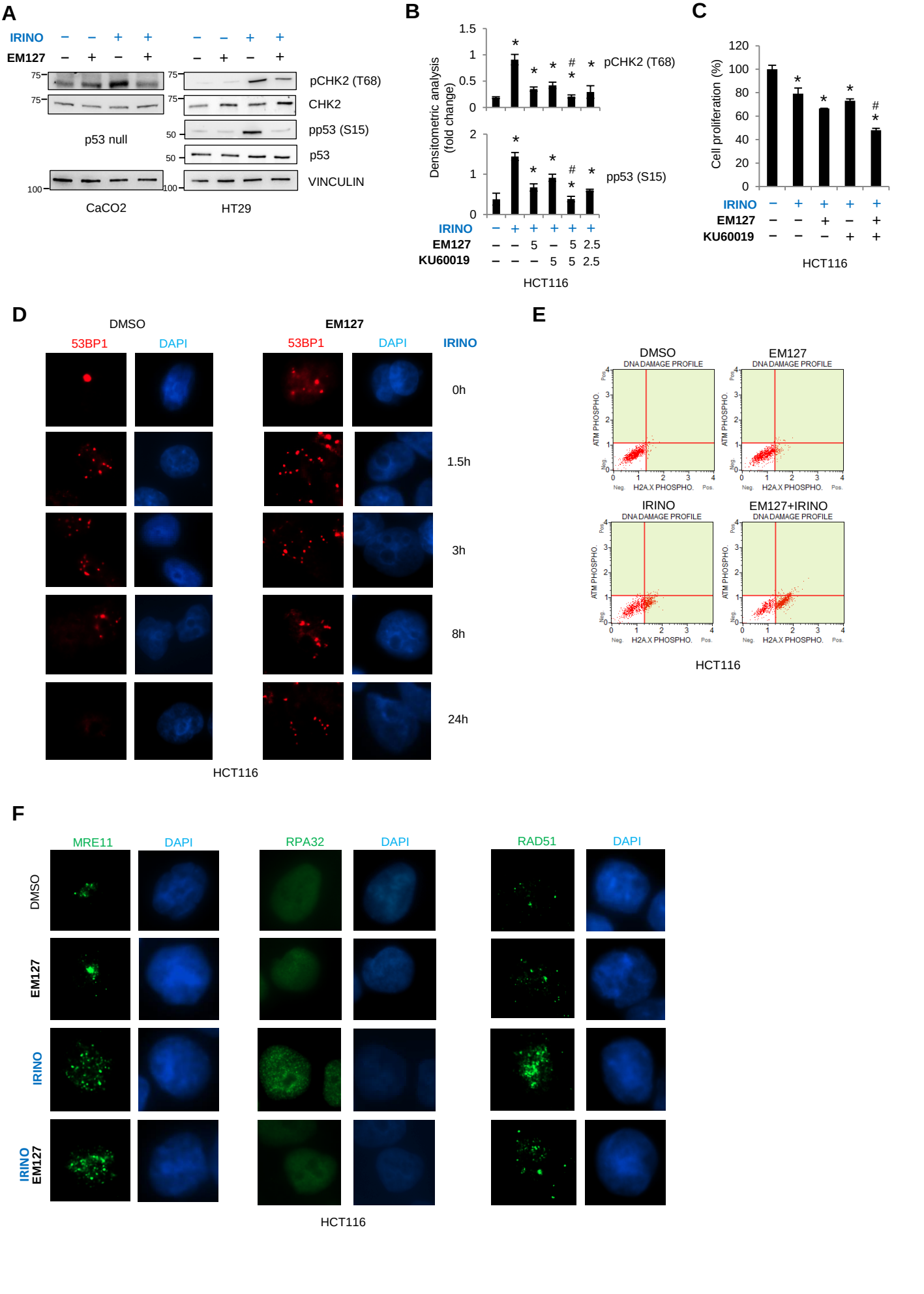
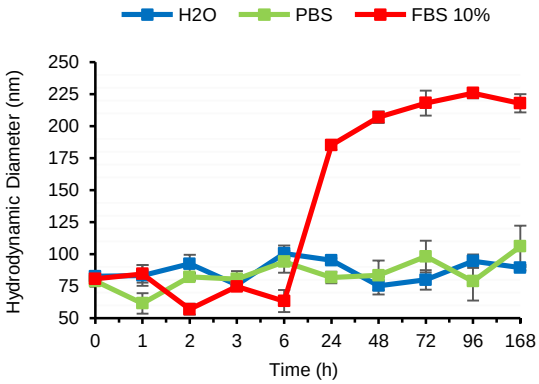

A
DOXO
BCI-121
EM127
116 kDa
89 kDa
PARP
cl.PARP
ACTIN
HCT116
cl.PARP/PARP
B
DMSO
EM127
OXA 24h
EM127+OXA 24h
5-FU 24h
EM127+5-FU 24h
IRINO 24h
EM127+IRINO 24h
IRINO 48h
IRINO 72h
IRINO 24h 30µM
APOPTOSIS PROFILE
VIABILITY
ANNEXIN V
HCT116
C
IRINO [µM]
EM127 [µM]
Synergy
Antagonism
D
Total apoptotic cells (%)
EM127
IRINO
HT29
SW480
CaCO2
E
PTX 24h
EM127+PTX 24h
MDA-MB-231
HCC70
MCF7

F

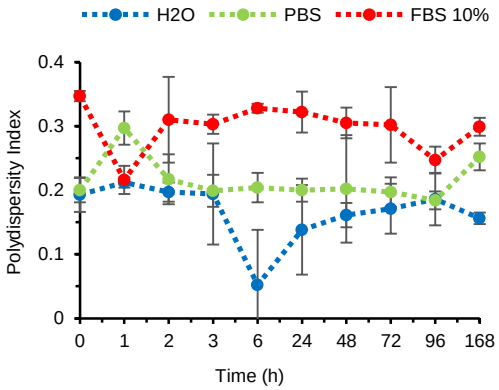

DMSO
EM127
PTX 24h
EM127+PTX 24h
OXA 24h
EM127+OXA 24h
APOPTOSIS PROFILE
VIABILITY
ANNEXIN V
Live
Apoptotic
Dead
Late Apop./Dead
Early Apop.
2.50 %
8.65 %
85.15 %
3.70 %
1.30 %
18.05 %
75.50 %
5.15 %
5.30 %
19.80 %
66.65 %
8.25 %
3.45 %
32.65 %
54.95 %
9.55 %
2.50 %
16.95 %
74.60 %
5.95 %
2.15 %
38.05 %
56.90 %
4.90 %
AGS
3.80 %
25.35 %
68.15 %
2.70 %
2.20 %
35.85 %
58.50 %
3.45 %
6.85 %
35.00 %
55.45 %
2.70 %
0.30 %
45.65 %
38.85 %
15.40 %
3.20 %
27.85 %
66.20 %
2.75 %
1.25 %
40.85 %
43.50 %
14.40 %
NCI-N87


A
IRINO
EM127
p53 null
pCHK2 (T68)
CHK2
pp53 (S15)
p53
VINCULIN
CaCO2
HT29
B
Densitometric analysis (fold change)
pCHK2 (T68)
pp53 (S15)
IRINO
EM127
KU60019
HCT116
C
Cell proliferation (%)
IRINO
EM127
KU60019
HCT116
D
DMSO
EM127
53BP1
DAPI
IRINO
0h
1.5h
3h
8h
24h
HCT116
E
DMSO
EM127
IRINO
EM127+IRINO
DNA DAMAGE PROFILE
ATM PHOSPHO.
H2A.X PHOSPHO.
HCT116
F
MRE11
RPA32
RAD51
DAPI
DMSO
EM127
IRINO
IRINO EM127
HCT116

A


H2O
PBS
FBS 10%
Hydrodynamic Diameter (nm)
250
225
200
175
150
125
100
75
50
0
1
2
3
6
24
48
72
96
168
Time (h)

B


H2O
PBS
FBS 10%
Polydispersity Index
0.4
0.3
0.2
0.1
0
0
1
2
3
6
24
48
72
96
168
Time (h)