

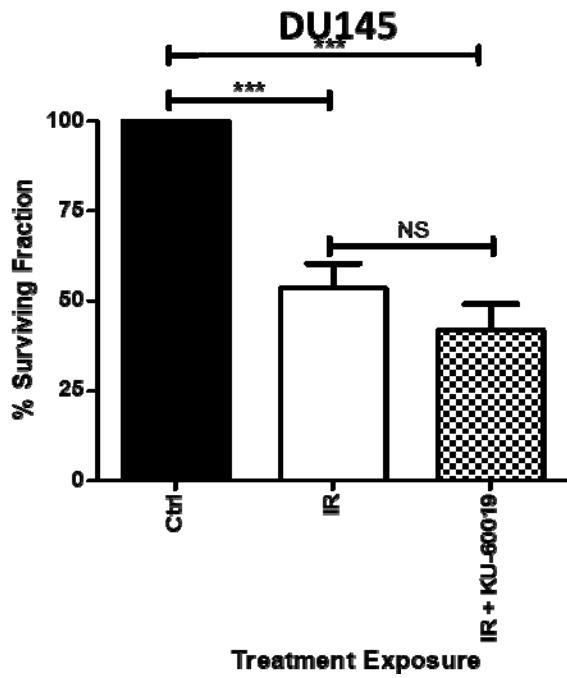
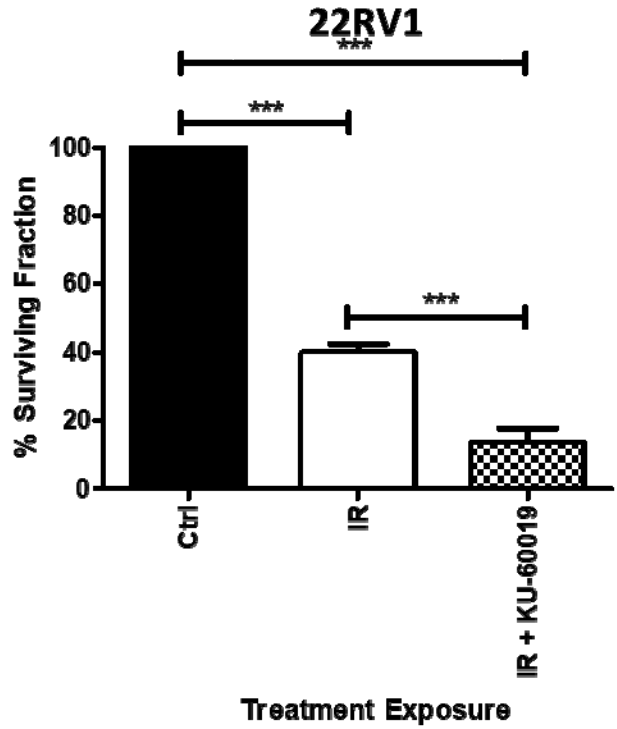
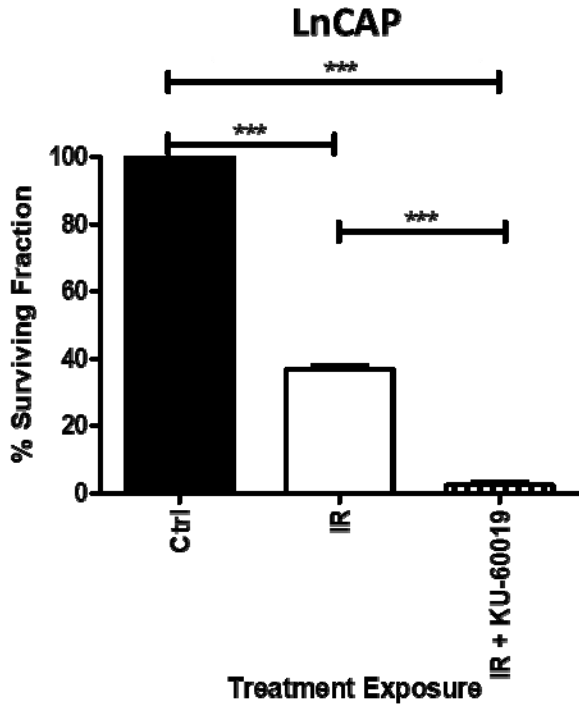
Supplementary data
Supp Table 1 & 2.

	PC-3 +PTEN	PC-3 -PTEN	HCT-116 WT	HCT-116 KO22	RWPE-1
α	0.32±0.04	0.27±0.07	0.28±0.05	0.36±0.09	0.46±0.08
β	0.007±0.01	0.019±0.01	0.017±0.01	0.021±0.01	0.011±0.01
SF2	0.52	0.58	0.54	0.45	0.38
SF4	0.23	0.23	0.25	0.17	0.13

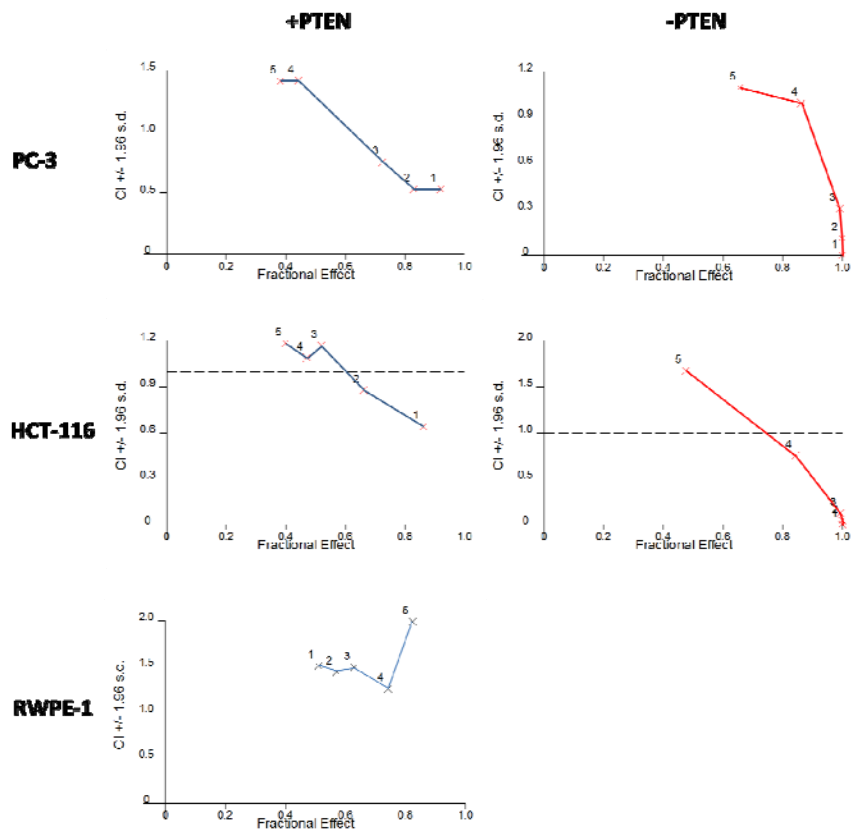
Radiation Sensitisation Enhancement Ratio of PTEN expression

	PC-3	HCT-116
SER	0.92 ($p = 0.41$)	0.68 ($p = 0.02$)

Supplementary data
Supp Figure 1



Supplementary data
 Supp Figure 2



Supplementary data
Supp Table 3

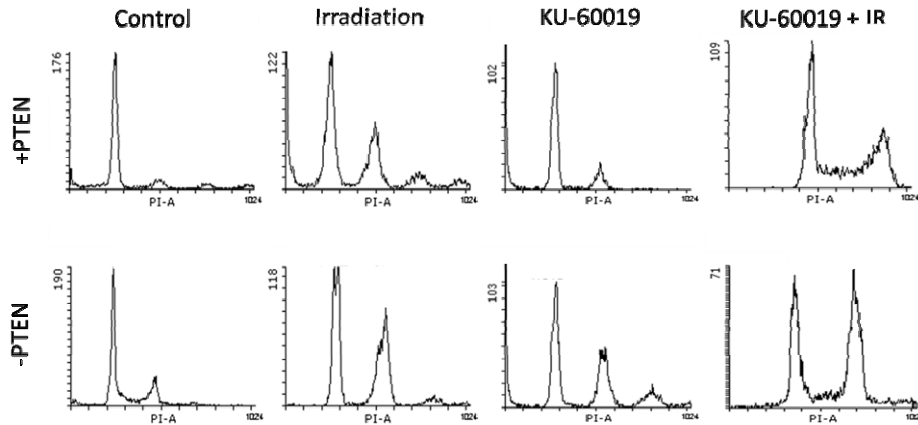
	PC-3 +PTEN	PC-3 -PTEN	HCT-116 WT	HCT-116 KO22	RWPE1
SF (1 μ M)	0.33	0.03	0.70	0.19	0.38
SF (2-Gy + 1 μ M)	0.17	0.01	0.34	0.16	0.26
RER	1.94	3.00	2.06	1.13	1.47
Combination Index (2-Gy + 1 μ M)	0.535	0.115	0.88	0.13	1.25

Supplementary data
Supp Table 4

	PC-3 +PTEN	PC-3 -PTEN	HCT-116 WT	HCT-116 KO22
SF _{0.25} Dose (IR)	4.08	3.82	3.94	3.23
SF _{0.25} Dose (IR + [LC ₅₀ -PTEN])	4.41	2.33	3.75	2.33
DER	0.93 (<i>p</i> = 0.03)	1.64 (<i>p</i> = 0.01)	1.05 (<i>p</i> = 0.019)	1.39 (<i>p</i> = 0.02)

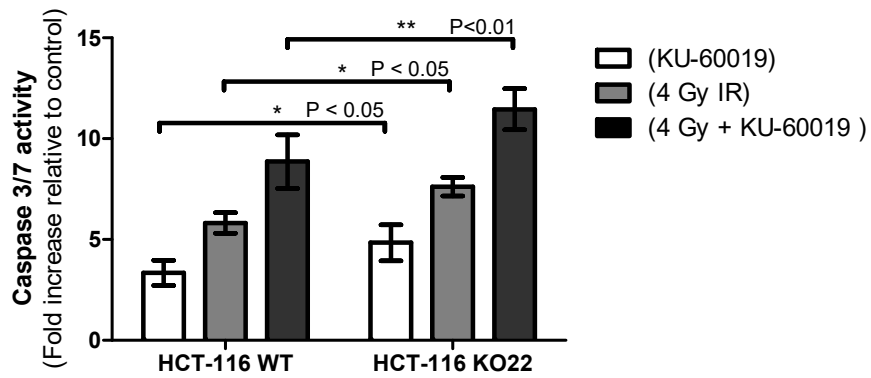
Supplementary data
Supp Figure 3

A



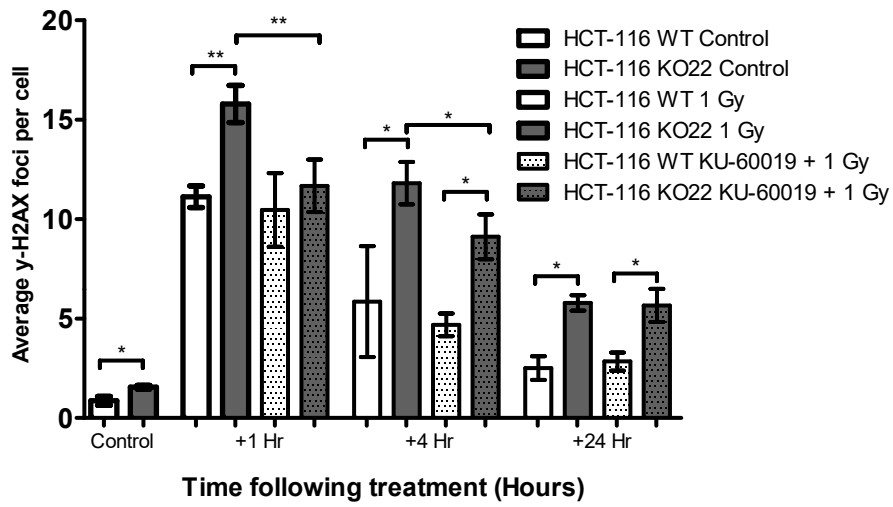
	+PTEN Control	-PTEN Control	+PTEN IR	-PTEN IR	+PTEN KU-60019	-PTEN KU-60019	+PTEN KU-60019 + IR	-PTEN KU-60019 + IR
G1	72	50	58	47	56	42	49	40
S	7	19	5	9	12	12	10	5
G2/M	14	27	27	36	27	39	33	48

B

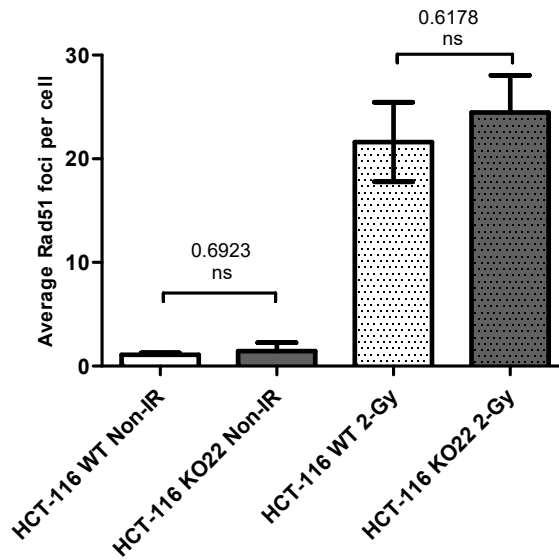


Supplementary data
Supp Figure 4

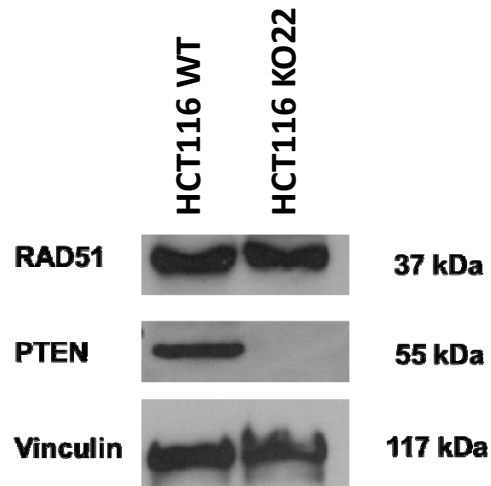
A



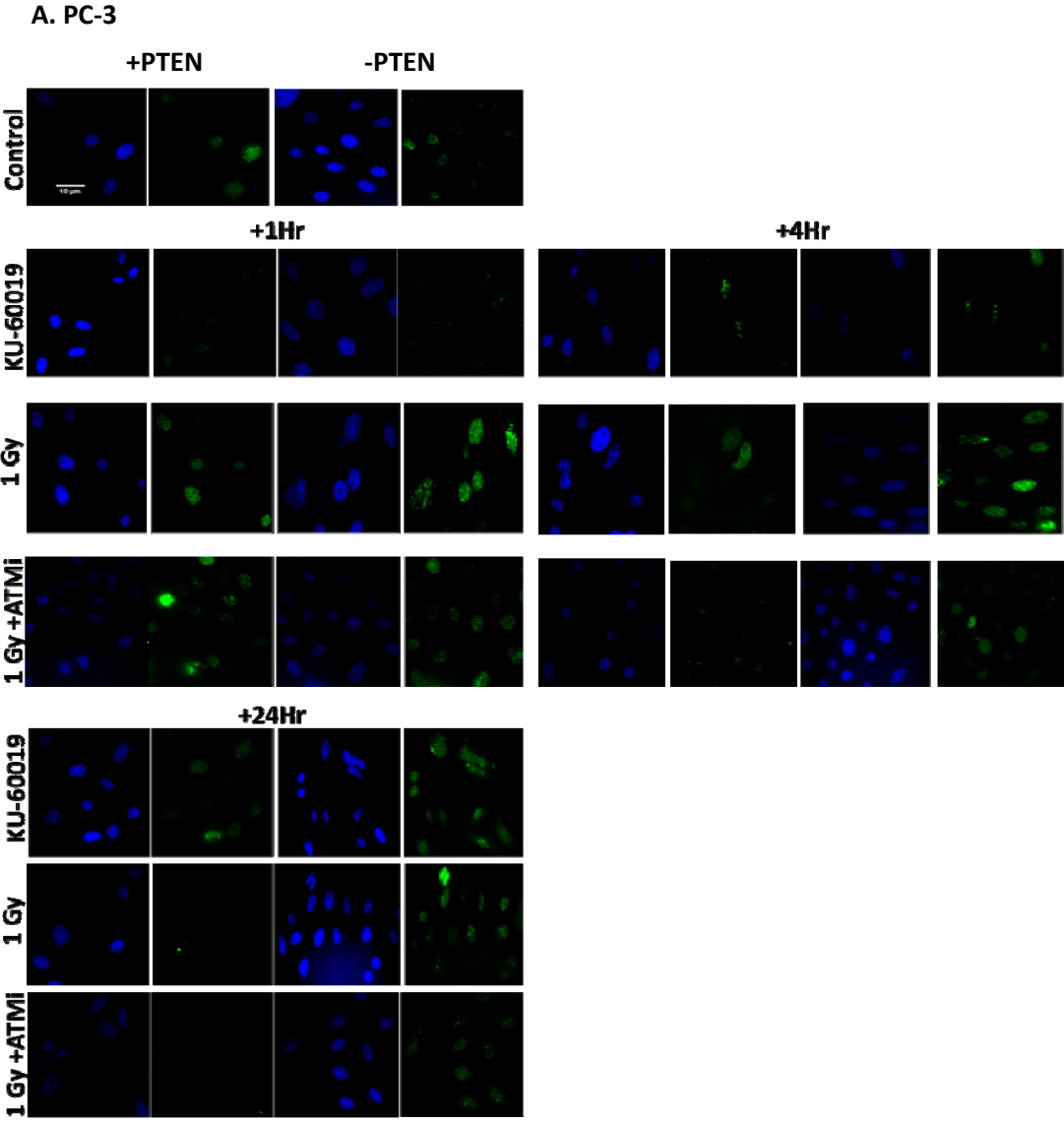
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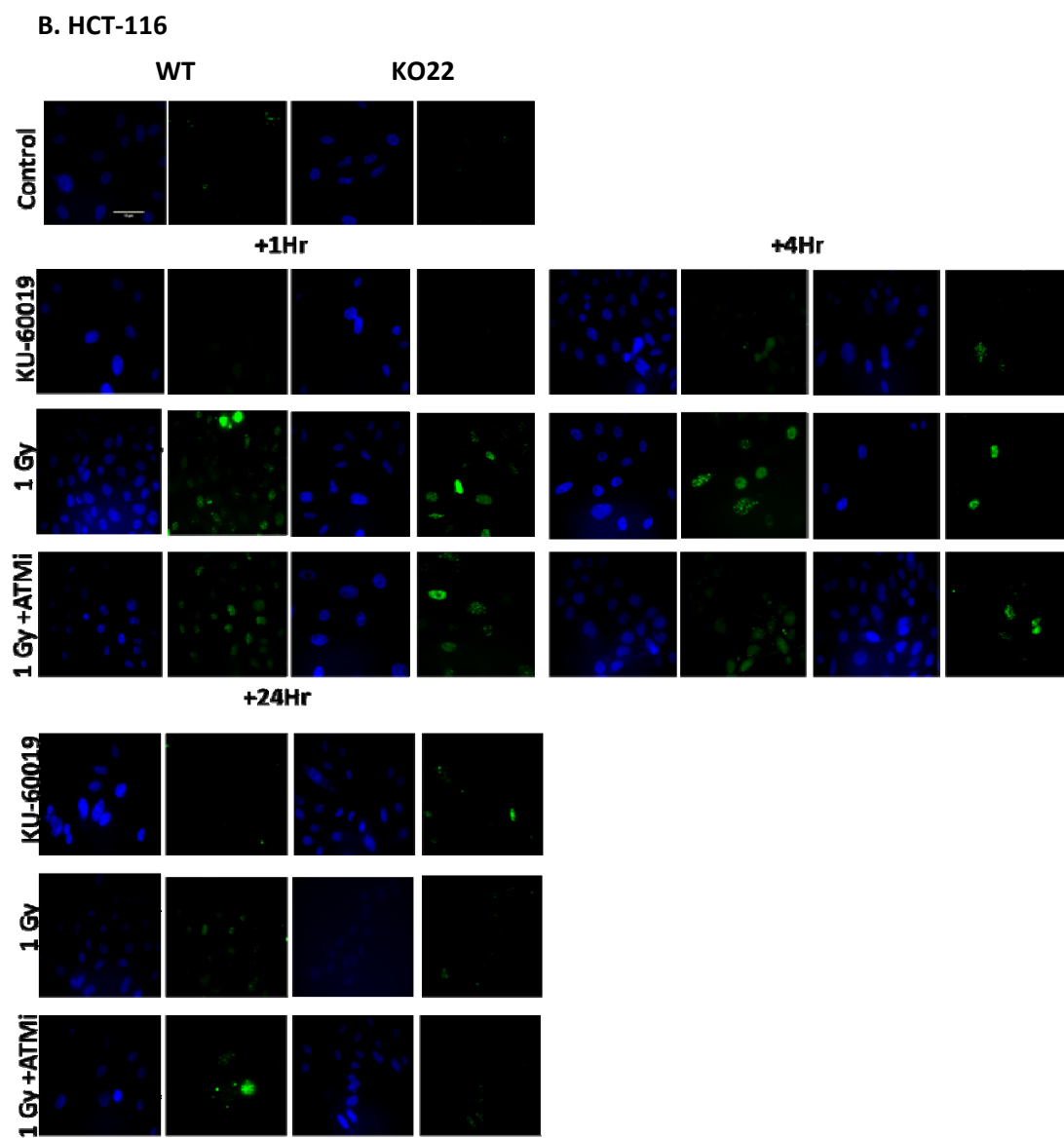
C



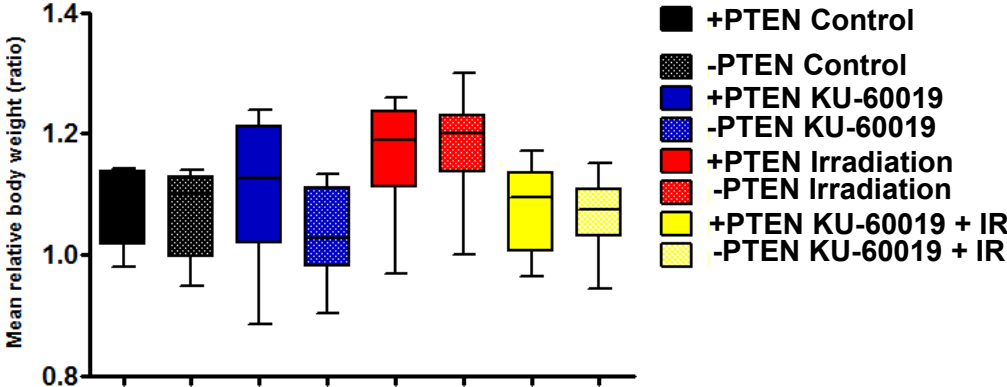
Supplementary data
Supp Figure 5



Supplementary data
Supp Figure 5



Supplementary data
Supp Figure 6



Supplementary data

Supp Figure 7

ATM	-	-	-	-	+	+	+	+
2Gy	-	-	+	+	-	-	+	+
PTEN	-	+	-	+	-	+	-	+

