SUPPLEMENTARY MATERIAL TO:

[^{18}F]PARPi imaging is not affected by HPV status in vitro

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Supplementary figures

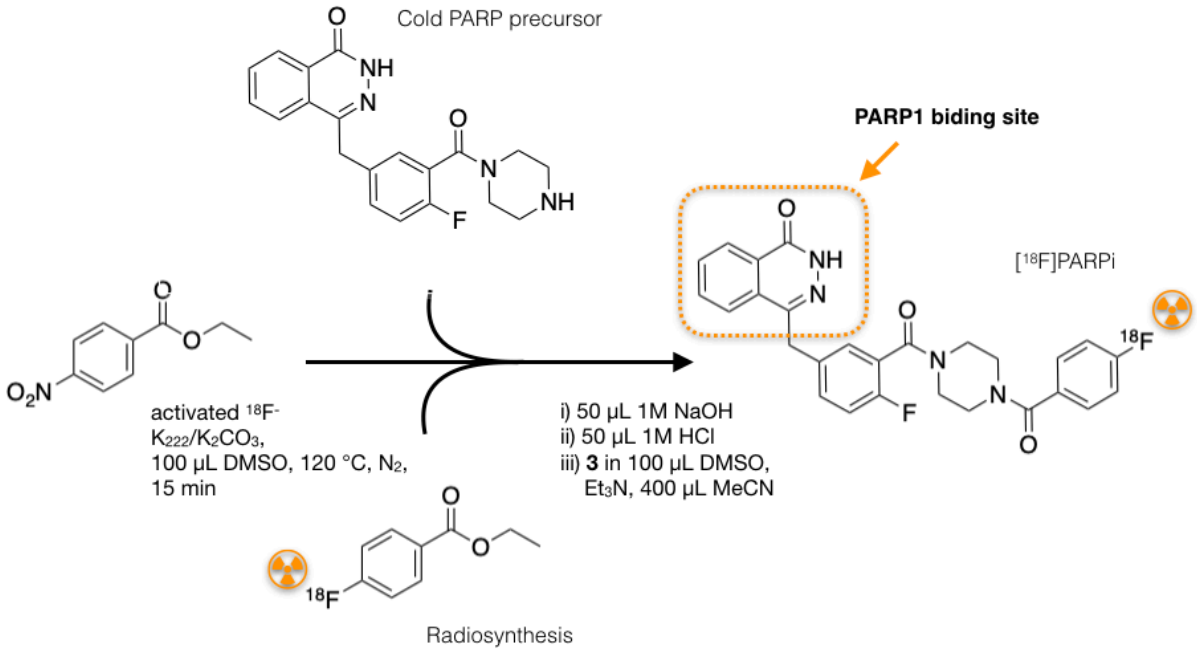

Fig. S1. Scheme representing [^{18}F]PARPi Synthesis. [^{18}F]PARPi can maintain specificity to PARP1 since the chemical modification of the Olaparib scaffold has only limited impact on target binding.

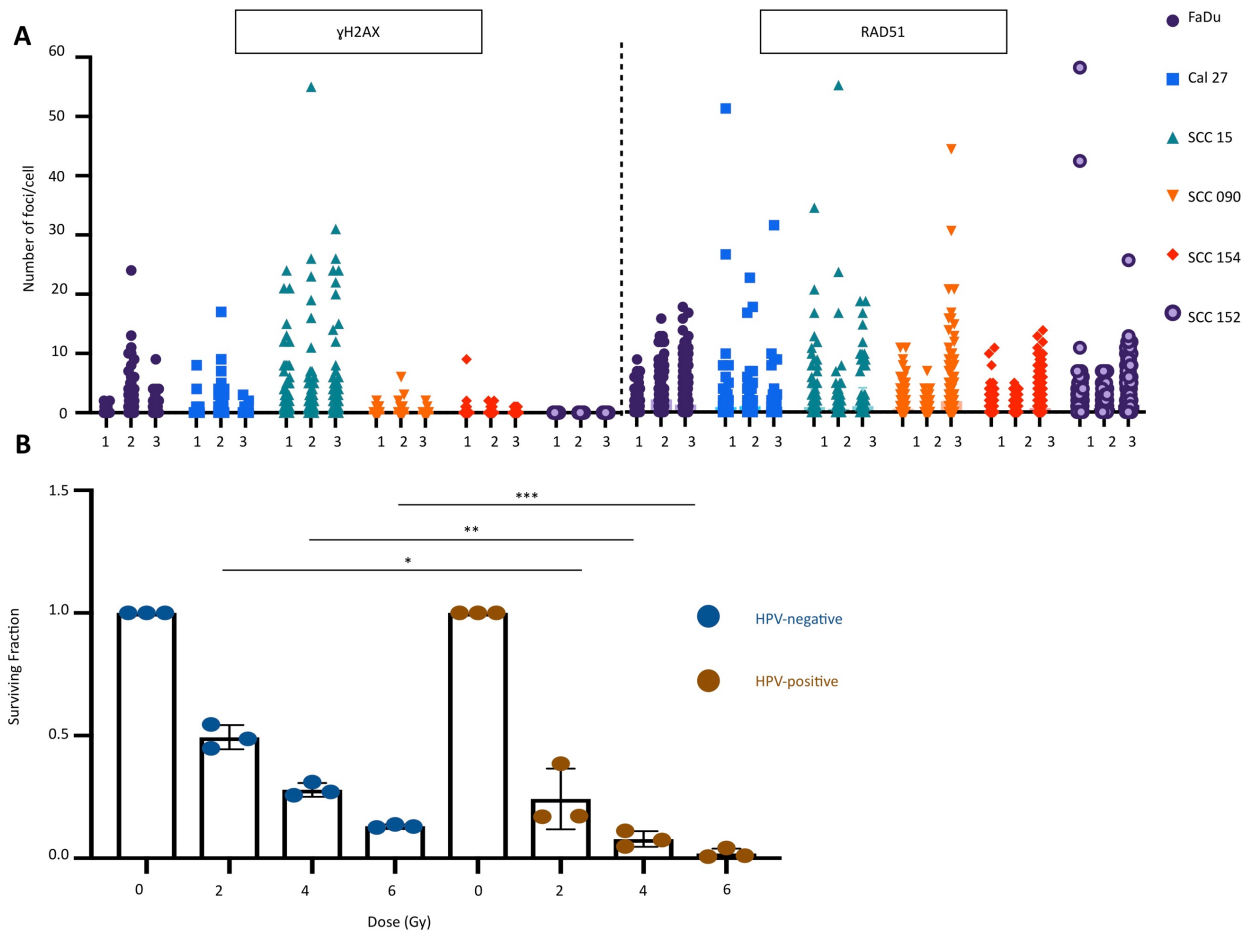

Fig. S2. Effect of external beam irradiation on HPV negative and HPV positive cell lines. (A) Number of foci per cell in individual cell line measured using non-irradiated (0 Gy) and 30 mins and 24 h post irradiation (2 Gy). 1 = Non-irradiated cells, 2 = 30 min post-IR, 3 = 24 h post-IR. **(B)** Surviving fraction analysis of three HPV-negative and three HPV-positive cell lines after 0, 2, 4, and 6 Gy irradiation through clonogenic assay. Each dot represents a cell line. Mean ± SD of three independent experiments with three replicates each (*$p < 0.05$, **$p < 0.01$, ***$p < 0.001$, student *t*-test).

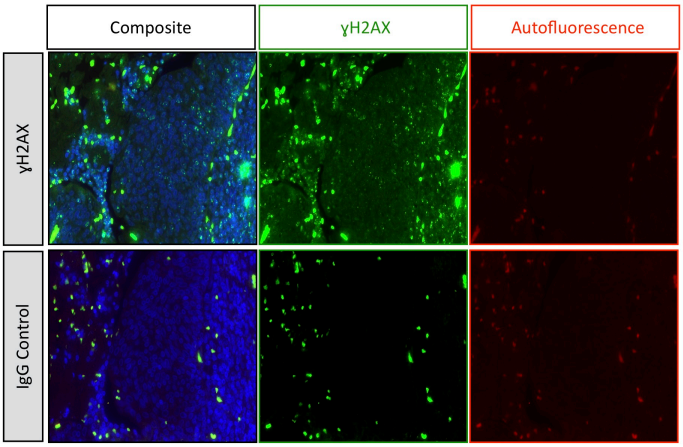

Fig. S3. γH2AX Immunofluorescence staining IgG control. Top lane shows patient biospecimen with γH2AX staining (0.5µg) and visible foci in green. Bottom lane represents the IgG control where no visible foci is observed. The visible color corresponds to autofluorescence as shown in red which is originated from blood cells.