



**Supplementary Figure S2:** A comet assay was performed to assess radiation induced DNA damage upon different radiation doses (2 Gy and 8 Gy). Cells without irradiation were used as control. **(A)** Representative immunofluorescence images of stained nuclear tails are shown for each cell line and radiation dose. **(B)** Semi-quantitative analyses of the Tail Moment upon irradiation for SCaBER, VMCUB-1 and J82 cells. Overall n= 1496 individual cells with corresponding tails were analyzed by image j. The 0 Gy control was used for normalization.