

Figure S1. (a) The XRD spectrum of the ZnO/PVP QDs; (b) Zeta potential of the ZnO/PVP QDs;

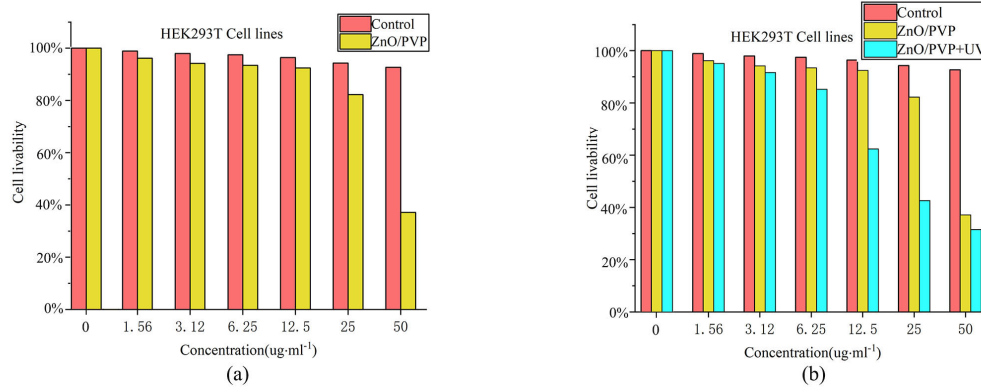


Figure S2. Cell survival rates of HEK293T cell lines. (a) Cell survival rates of the ZnO/PVP QDs at different concentrations; (b) Cell survival rates of the ZnO/PVP and ZnO/PVP+UV groups at different concentrations.

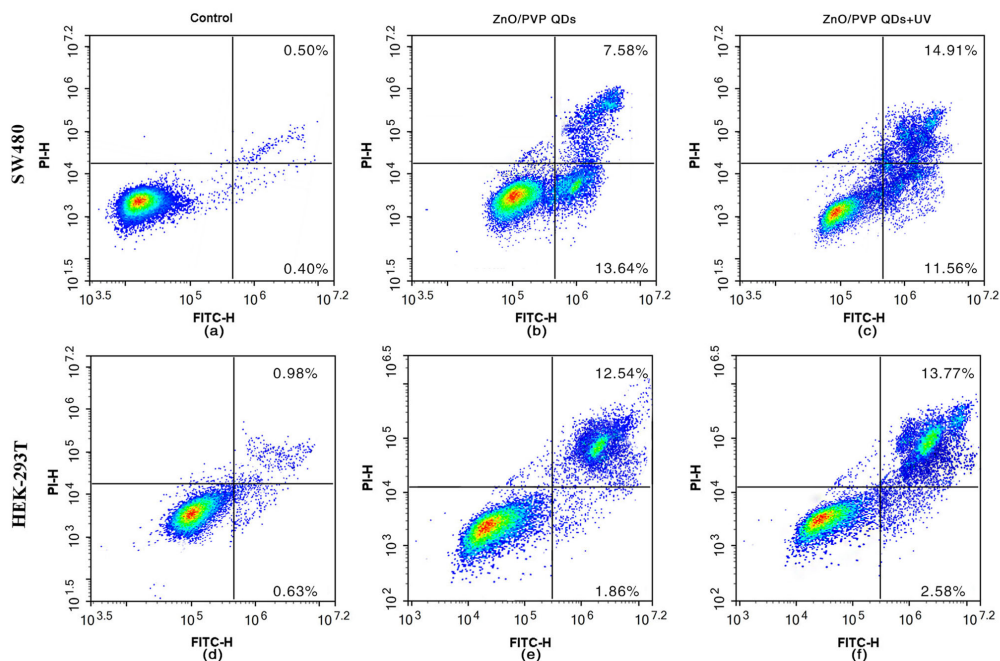


Figure S3. Annexin V/PI staining combined with flow cytometry was used to determine apoptosis of SW480 and HEK-293T cells line which induced by ZnO/PVP QDs at the concentration of 25µg/ml.

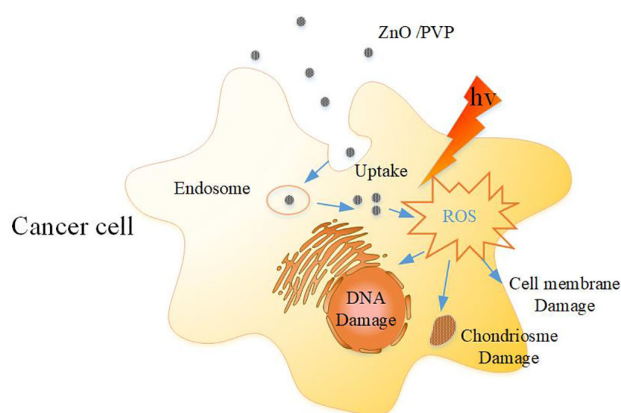


Figure S4. Schematic illustration of the mechanism of photodynamic tumor suppressive action of ZnO/PVP QDs