**Supplementary Figure legend**

**Supplementary Figure. (A, B)** The activity of HDAC1 and HDAC3 in HCC cells Huh7, HepG2, Hep3B, BEL-7402, MHCC97H, MHCC97L, and human normal liver cell L02. \* compare with L02 group. **(C)** The activity of HDAC1 in HepG2 and MHCC97H cells treated with different dose of irradiaton. \* compare with HepG2 and MHCC97H group. **(D)** The activity of HDAC3 in HepG2 and MHCC97H cells treated with different dose of irradiaton. \* compare with HepG2 and MHCC97H group. Mean ± SD (n = 3 independent experiments). \* *p*＜0.05, \*\* *p*＜0.01, \*\*\* *p*＜0.001, \*\*\*\* *p*＜0.0001