



S4 Fig. *Kdm6a*^{-/-} cells do not express KDM6A and have increased global H3K4me3. For all densitometry panels, a relative protein level of 1.0 corresponds to the mean densitometry of *Kdm6a*^{+/+} cell lines. (A) *Kdm6a*^{-/-} cells have negligible KDM6A expression, normalized against ACTB loading controls. (B) There is no significant difference in H3K27me3 levels between *Kdm6a*^{-/-} and *Kdm6a*^{+/+} cell lines, with H3 serving as loading control. (C) Western blot and (D) densitometry quantification show no difference in global H3K4me1 between *Kdm6a*^{-/-} and *Kdm6a*^{+/+} cell lines. H3K4me3 is significantly increased in *Kdm6a*^{-/-} cells by (E) western blot and (F) densitometry quantification. Blue circles: *Kdm6a*^{+/+}, red triangles: *Kdm6a*^{-/-}. **p* < 0.05, *****p* < 0.0001, two-tailed unpaired Student's t-test. n.s., non-significant. All error bars represent mean ± 1 SD.