Supplementary information, Fig.S11



Supplementary information, Fig.S11 RYBP functions in CTCF phase separation are primarily different from that in RYBP-PRC1. a Representative immunofluorescence images showing the co-localization across RYBP, CTCF and RING1B. b Percentage of RYBP-CTCF-RING1B co-localized puncta in RYBP-CTCF co-localized puncta. c Percentage of RYBP-CTCF-RING1B co-binding peaks in RYBP-CTCF co-binding peaks. d GO analysis of genes targeted by RYBP-CTCF co-binding peaks where lack RING1B. e, f Definition of RYBP PRC1-related genes (e) and CTCF phase separation-related genes (f). g Percentage of RYBP PRC1-related genes in CTCF phase separation-related genes. h Co-IP experiment showing the interaction between CTCF and SMC1 (positive control), between CTCF and YAF2. i, j RT-qPCR (i) and WB (j) showing the knockdown efficiency of Yaf2. Welch's t-test; n = 3, P = 0.016; k Relative number of highly concentrated CTCF puncta after YAF2-deficiency. Welch's t-test; shEV, n = 35 cells; shYaf2, n = 79 cells; P = 0.9093; I Representative immunofluorescence images showing the degradation of RING1B in RING1B-AID ESCs. All the scale bars denote 10 µm. m WB showing the expression of CTCF and RYBP after RING1B degradation. n Relative number of RYBP_CTCF co-localized puncta after RING1B-deficiency. Welch's t-test; NTC, n = 159 cells; RINGB KO, n = 108 cells; P = 0.9459; o mRNA (left, GSE96107) and protein (right) expression in ESCs and NPCs. Welch's *t*-test; n = 2, P = 0.0015.