



Supplementary information, Figure S8 Schematic of the cellular pathway for hPSC differentiation into endothelial lineage cells and machinery mechanisms of Notch signaling inhibition maintaining the KDR promoter activity.

(A) The schematic cascade of hPSC-derived KDR⁺ precursors' differentiation into endothelial lineage cells, including EPs and mature ECs. VEGF-A is essential for endothelial

differentiation derived from KDR⁺ precursors but concurrently attenuated the KDR activity in the differentiated cells through the Notch signaling, resulting in the maturation of the differentiated endothelial lineage cells (KDR^{low}, CD34^{low/–}). By blocking the function of the Notch signaling, DAPT in combination with VEGF-A promotes the induction of KDR⁺ precursor-derived EPs. (**b**) Schematic of machinery mechanisms by which DAPT or genetical knockdown of Notch signaling with shRNA maintains the KDR promoter activity. NICD, Notch intracellular domain.