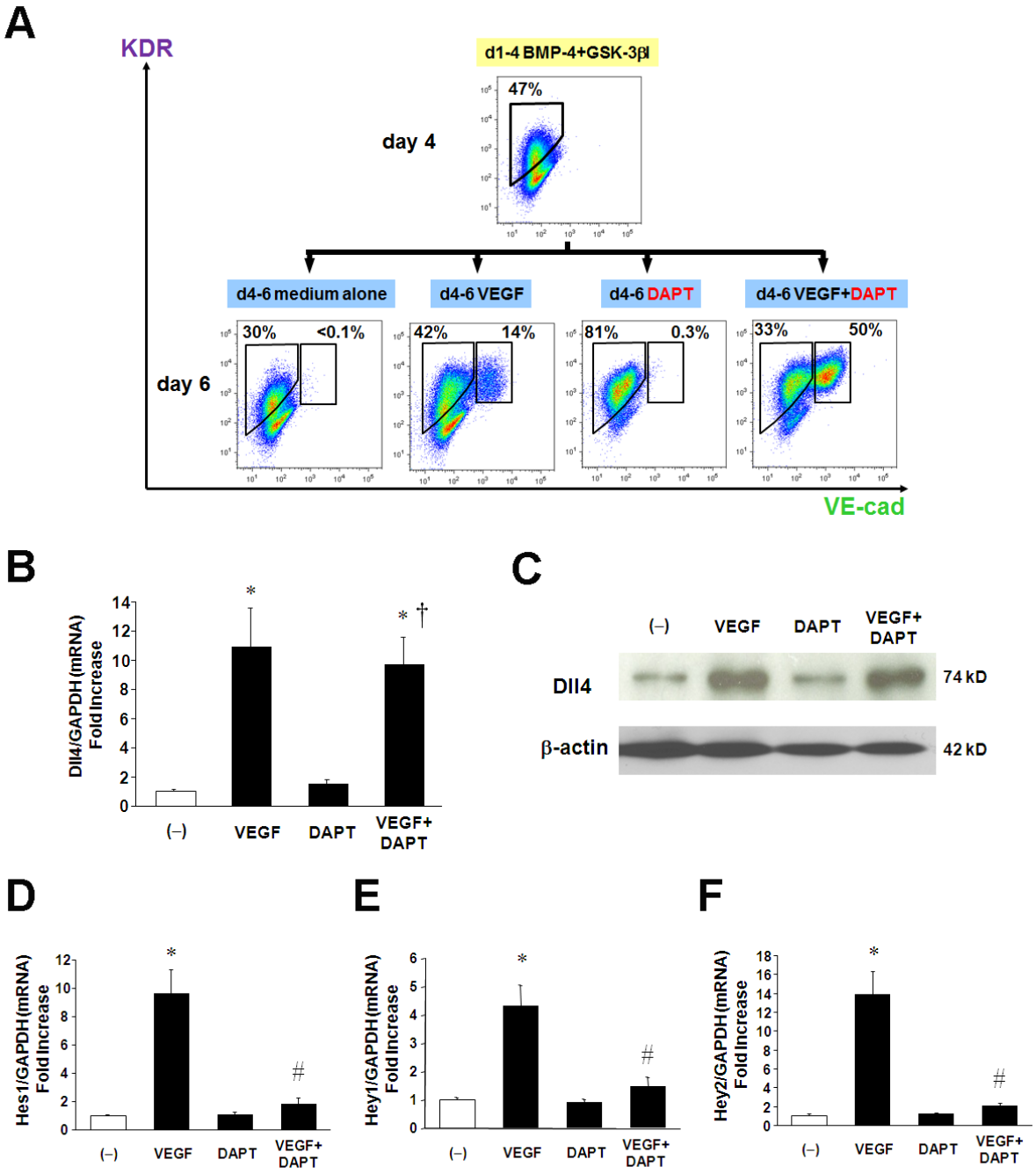


**Supplementary information, Figure S5** VEGF-A activates a Dll4/Notch signaling with upregulation of Notch downstream target genes.

(**A**) Expression of KDR on day 4 and 6 of the differentiated hESCs treated with VEGF-A and/or DAPT in phase 2. DAPT with or without VEGF-A significantly enhanced the $KDR^+$ cell ratio, compared with medium and VEGF alone. (**B**) Quantitative RT-PCR result of the

Dll4 mRNA expression in the differentiated hESCs treated with VEGF-A and/or DAPT. (**C**) A representative result of Western blot analysis for Dll4 in the differentiated hESCs. VEGF-A upregulated the Dll4 expression in mRNA (**B**) and protein (**C**) levels, and DAPT did not block the VEGF-A-induced upregulation of Dll4. **P*<0.01 vs (–) (no molecules), †*P*=NS vs VEGF-A. (**D, E,** and **F**) Quantitative RT-PCR results of Notch downstream target genes, Hes1 (**D**), Hey1 (**E**), and Hey2 (**F**) in the differentiated hESCs. Similarly, VEGF-A upregulated these Notch downstream target genes, whereas DAPT significantly attenuated the VEGF-A-induced upregulation of these genes. **P*<0.01 vs (–), #*P*<0.01 vs VEGF-A.