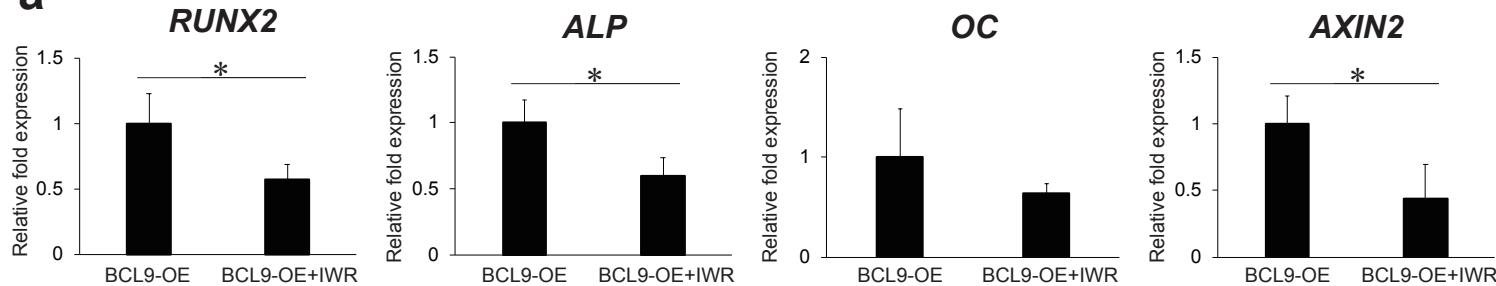
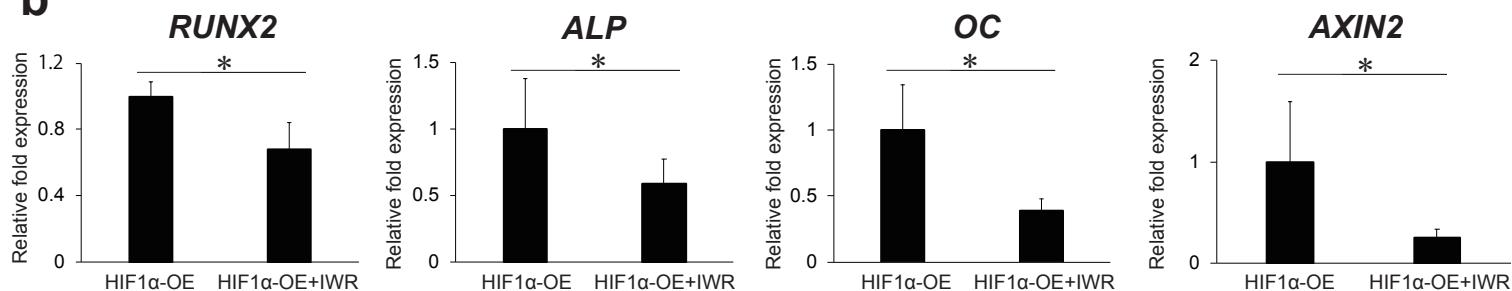


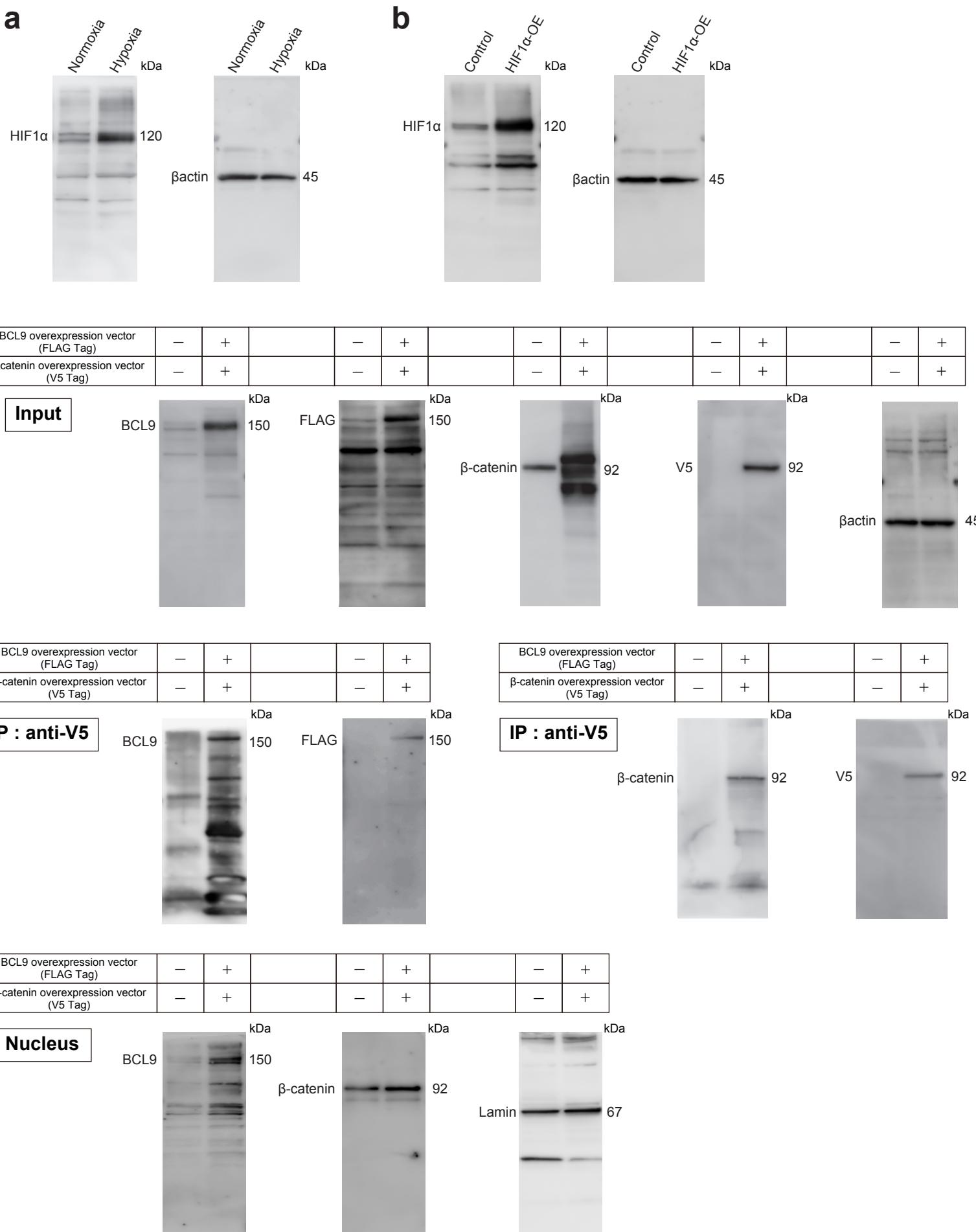
Hypoxia-inducible factor 1 α induces osteo/odontoblast differentiation
of human dental pulp stem cells via Wnt/ β -catenin transcriptional cofactor BCL9

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Supplemental Figure 1

a**b**

Supplemental Figure 1. Wnt inhibitor (IWR-1-endo) suppresses osteo/odontoblast differentiation and Wnt/ β -catenin signaling. (a) IWR-1-endo (10 μ M) downregulates the mRNA expression of osteo/odontoblast differentiation markers (RUNX2 and ALP) and Wnt/ β -catenin target gene (AXIN2) in BCL9-overexpressing hDPSCs for 24 h. (b) IWR-1-endo (10 μ M) downregulates the mRNA expression of osteo/odontoblast differentiation markers (RUNX2 and ALP) and a Wnt/ β -catenin target gene (AXIN2) in HIF1 α -overexpressing hDPSCs for 48 h. Error bars indicate standard deviation ($n = 4$). *p < 0.05.



Supplemental Figure 2. Full-length blots. (a, b) HIF1α protein expression is upregulated in hypoxic culture (1% O₂) or upon HIF1α overexpression for 48 h (Fig. 2a, d). (b) Immunoprecipitation to detect the binding of BCL9 to β-catenin in BCL9 (FLAG Tag) and β-catenin (V5 Tag) overexpression for 24 h (Fig. 4e). (d) BCL9 and β-catenin proteins translocate to nucleus of hDPSCs in BCL9 and β-catenin overexpression for 24 h (Fig. 4f).