Product Data Sheet: RUNX2

Cat. No:	AB-84116
Size:	100 ul
Clone:	POLY
Concentration:	1mg/ml
Host:	Rb
Isotype:	IgG
Immunogen:	Synthesized peptide derived from human RUNX2.
Reactivity:	Hu, Ms
Applications:	Western Blot: 1:500 - 1:2000 Immunofluorescence: 1:50-1:200. ELISA: 1/2000. Not yet tested in other applications
Molecular Weight:	56kDa
Purification:	Aff. Pur.
Background:	Transcription factor involved in osteoblastic differentiation and skeletal morphogenesis. Essential for the maturation of osteoblasts and both intramembranous and endochondral ossification. CBF binds to the core site, 5′-PYGPYGGT-3′, of a number of enhancers and promoters, including murine leukemia virus, polyomavirus enhancer, T-cell receptor enhancers, osteocalcin, osteopontin, bone sialoprotein, alpha 1(I) collagen, LCK, IL-3 and GM-CSF promoters. In osteoblasts, supports transcription activation: synergizes with SPEN/MINT to enhance FGFR2-mediated activation of the osteocalcin FGF-responsive element (OCFRE) . Inhibits KAT6B-dependent transcriptional activation. Modifications: Phosphorylated; probably by MAP kinases (MAPK). Phosphorylation by HIPK3 is required for the SPEN/MINT and FGF2 transactivation during osteoblastic differentiation . Phosphorylation at Ser-451 by CDK1 promotes endothelial cell proliferation required for tumor angiogenesis probably by facilitating cell cycle progression. Isoform 3 is phosphorylated on Ser-340.
Form:	Liquid
Buffer:	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage:	At +4°C for short term. For longer term store at -20°C, avoid repeat freeze-thaw cycles.

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