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RUNX2 (D1L7F) Rabbit mAb (PE Conjugate)



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: FC-FP	Reactivity: H M R	Sensitivity: Endogenous	Source/Isotype: Rabbit IgG	UniProt ID: #Q13950	Entrez-Gene Id: 860
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Product Usage Information	Application Flow Cytometry (Fixed/Permeabilized)	Dilution 1:50
Storage	Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibodies. Protect from light. Do not freeze.	
Specificity / Sensitivity	RUNX2 (D1L7F) Rabbit mAb (PE Conjugate) recognizes endogenous levels of total RUNX2 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ala273 of human RUNX2 protein.	
Product Description	This Cell Signaling Technology antibody is conjugated to phycoerythrin (PE) and tested in-house for direct flow cytometry analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated RUNX2 (D1L7F) Rabbit mAb #12556.	
Background	Runt-related transcription factor 2 (RUNX2) is a member of the RUNX family of transcription factors. It is involved in osteoblast differentiation and skeletal morphogenesis. RUNX2 regulates the transcription of various genes, including osteopontin, bone sialoprotein, and osteocalcin, via binding to the core site of the enhancers or promoters (1-3). RUNX2 is crucial for the maturation of osteoblasts and both intramembranous and endochondral ossification. Mutations in the corresponding <i>RUNX2</i> gene have been associated with the bone development disorder cleidocranial dysplasia (CCD) (4-6). RUNX2 is also abnormally expressed in various human cancers, including prostate and breast cancer. It plays an important role in migration, invasion, and bone metastasis of prostate and breast cancer cells (7-10).	
Background References	<ol style="list-style-type: none"> Viereck, V. et al. (2002) <i>J Cell Biochem</i> 86, 348-56. Willis, D.M. et al. (2002) <i>J Biol Chem</i> 277, 37280-91. Tu, Q. et al. (2008) <i>J Cell Physiol</i> 217, 40-7. Quack, I. et al. (1999) <i>Am J Hum Genet</i> 65, 1268-78. Cardoso, B.M. et al. (2010) <i>Clin Dysmorphol</i> 19, 150-2. Han, M.S. et al. (2010) <i>J Cell Biochem</i> 110, 97-103. Akech, J. et al. (2010) <i>Oncogene</i> 29, 811-21. van der Deen, M. et al. (2010) <i>J Cell Biochem</i> 109, 828-37. Barnes, G.L. et al. (2003) <i>Cancer Res</i> 63, 2631-7. Barnes, G.L. et al. (2004) <i>Cancer Res</i> 64, 4506-13. 	
Species Reactivity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).	
Applications Key	FC-FP: Flow Cytometry (Fixed/Permeabilized)	
Cross-Reactivity Key	H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse GP: Guinea Pig Rab: rabbit All: all species expected	
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