

12556

RUNX2 (D1L7F) Rabbit mAb



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

Applications: W, IP, FC-FP, ChIP, ChIP-seq	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 55-62	Source/Isotype: Rabbit IgG	UniProt ID: #Q13950	Entrez-Gene Id: 860
Product Usage Information		For optimal ChIP and ChIP-seq results, use 5 µl of antibody and 10 µg of chromatin (approximately 4 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP® Enzymatic Chromatin IP Kits. Application Western Blotting Inmunoprecipitation Flow Cytometry (Fixed/Permeabilized) Chromatin IP Chromatin IP-seq 1:100				
Storage		0.02% sodium azide. S	Store at –20°C. Do n	5), 150 mM NaCl, 100 μg, ot aliquot the antibody.		rol and less than
Specificity/Sensitivity		For a carrier free (BSA and azide free) version of this product see product #68007. RUNX2 (D1I7F) Rabbit mAb 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.				
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		1. Viereck, V. et al. (2002) <i>J Cell Biochem</i> 86, 348-56. 2. Willis, D.M. et al. (2002) <i>J Biol Chem</i> 277, 37280-91. 3. Tu, Q. et al. (2008) <i>J Cell Physiol</i> 217, 40-7. 4. Quack, I. et al. (1999) <i>Am J Hum Genet</i> 65, 1268-78. 5. Cardoso, B.M. et al. (2010) <i>Clin Dysmorphol</i> 19, 150-2. 6. Han, M.S. et al. (2010) <i>J Cell Biochem</i> 110, 97-103. 7. Akech, J. et al. (2010) <i>Oncogene</i> 29, 811-21. 8. van der Deen, M. et al. (2010) <i>J Cell Biochem</i> 109, 828-37. 9. Barnes, G.L. et al. (2003) <i>Cancer Res</i> 63, 2631-7. 10. 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).

Western Blot Buffer

 $IMPORTANT: For western \ blots, incubate \ membrane \ with \ diluted \ primary \ antibody \ in \ 5\% \ w/v \ BSA, \ 1X \ ABC \ and \ and \ ABC \ and \ ABC \ and \ ABC \ and \ and \ ABC \ and \ ABC \ and \ and \ ABC \ and \ and \ ABC \ and \ ABC \ and \ and$

TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting **IP:** Immunoprecipitation **FC-FP:** Flow Cytometry (Fixed/Permeabilized) **ChIP:**

Chromatin IP ChIP-seq: Chromatin IP-seq

Cross-Reactivity Key

H: Human M: Mouse R: Rat

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