

RUNX2 polyclonal antibody

Catalog # PAB12312 Size 100 ug

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of RUNX2.
Immunogen	A synthetic peptide corresponding to amino acids 244-258 at middle region of human RUNX2.
Host	Rabbit
Theoretical MW (kDa)	55.6
Reactivity	Human, Rat
Specificity	Identical to the related rat and mouse sequence.
Form	Lyophilized
Purification	Affinity purification
Isotype	IgG
Recommend Usage	Western Blot (1 ug/mL) The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ (5 mg BSA, 0.05 mg sodium azide, 0.05 mg Thimerosal)
Storage Instruction	Store at -20°C on dry atmosphere. After reconstitution with 200 uL of deionized water and concentration will be 500 ug/mL, store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide and thimerosal: POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot

Gene Info — RUNX2

Entrez GeneID	860
Gene Name	RUNX2
Gene Alias	AML3, CBFA1, CCD, CCD1, MGC120022, MGC120023, OSF2, PEA2aA, PEBP2A1, PEBP2A2, PEBP2aA, PEBP2aA1
Gene Description	runt-related transcription factor 2
Omim ID	119600 600211
Gene Ontology	Hyperlink
Gene Summary	This gene is a member of the RUNX family of transcription factors and encodes a nuclear protein with an Runt DNA-binding domain. This protein is essential for osteoblastic differentiation and skeletal morphogenesis and acts as a scaffold for nucleic acids and regulatory factors involved in skeletal gene expression. The protein can bind DNA both as a monomer or, with more affinity, as a subunit of a heterodimeric complex. Mutations in this gene have been associated with the bone development disorder cleidocranial dysplasia (CCD). Transcript variants that encode different protein isoforms result from the use of alternate promoters as well as alternate splicing. [provided by RefSeq]
Other Designations	CBF-alpha 1 OTTHUMP00000016533 SL3-3 enhancer factor 1 alpha A subunit SL3/AKV core-binding factor alpha A subunit acute myeloid leukemia 3 protein core-binding factor, runt domain, alpha subunit 1 osteoblast-specific transcription factor 2 polyomavirus e

Publication Reference

- [Human myeloma cell lines induce osteoblast downregulation of CD99 which is involved in osteoblast formation and activity.](#)

Oranger A, Brunetti G, Carbone C, Colaianni G, Mongelli T, Gigante I, Tamma R, Mori G, Di Benedetto A, Sciandra M, Ventura S, Scotlandi K, Colucci S, Grano M.

Journal of Immunology Research 2015 Apr; 2015:156787.

Application: WB-Ce, Human, Osteoblasts

- [Identification of novel CBFA1/RUNX2 mutations causing cleidocranial dysplasia.](#)

Bergwitz C, Prochnau A, Mayr B, Kramer FJ, Rittierodt M, Berten HL, Hausamen JE, Brabant G.

Journal of Inherited Metabolic Disease 2001 Nov; 24(6):648.

- [Cbfa1 is required for epithelial-mesenchymal interactions regulating tooth development in mice.](#)

D'Souza RN, Aberg T, Gaikwad J, Cavender A, Owen M, Karsenty G, Thesleff I.

Development 1999 Jul; 126(13):2911.

Disease

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