

Recombinant Human RUNX2

Cat. No. RUNX2-28321TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant fragment corresponding to amino acids 311-450 of Human RUNX2 with a proprietary tag at N-terminal; Predicted MWt 41.03kDa inclusive of tag.
Species	Human
Source	Wheat Germ
ProteinLength	140 amino acids
Description	<p>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.</p>
Molecular Weight	41.030kDa
Tissue specificity	Specifically expressed in osteoblasts.
Form	Liquid

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Purity	Proprietary Purification
Storage buffer	pH: 8.00 Constituents: 0.31% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	TSPSIHSTTPLSSTRGTGLPAITDVPRRISDDDTATSDFCLWPSTLSKKSQAGASELG PFSDPRQFPSISLLTESRFSNPRMHYPATFTYTPPVTSGLMSLGMSATTHYHTYLPPP YPGSSQSQSGPFQTSSTPYLYYGTS
Sequence Similarities	Contains 1 Runt domain.

GENE INFORMATION

Gene Name	RUNX2 runt-related transcription factor 2 [Homo sapiens]
Official Symbol	RUNX2
Synonyms	RUNX2; runt-related transcription factor 2; CBFA1, CCD, CCD1; AML3; PEBP2A1; PEBP2aA1;
Gene ID	860
mRNA Refseq	NM_001015051
Protein Refseq	NP_001015051
MIM	600211
Uniprot ID	Q13950

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**Chromosome
Location**

6p21

Pathway

Androgen Receptor Signaling Pathway, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; FGF signaling pathway, organism-specific biosystem; Notch-mediated HES/HEY network, organism-specific biosystem; Regulation of nuclear SMAD2/3 signaling, organism-specific biosystem;

Function

ATP binding; DNA binding; protein binding; sequence-specific DNA binding transcription factor activity;

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