Recombinant Human RUNX2 protein, His-tagged

Cat. No. RUNX2-48H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human RUNX2, transcript variant 3, fused with His tag at N-terminal was expressed in E. coli.
Species	Human
Source	E.coli
Description	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.
Form	25mM Tris, pH8.0, 150 mM NaCl, 10% glycerol, 1 % Sarkosyl.
Molecular Mass	54.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles. Stable for at least 3 months from receipt of products under proper storage and handling conditions.

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Concentration	>50 ug/mL as determined by microplate BCA method

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; CBF-alpha-1; PEA2-alpha A; PEBP2-alpha A; oncogene AML-3; acute myeloid leukemia 3 protein; SL3-3 enhancer factor 1 alpha A subunit; osteoblast-specific transcription factor 2; SL3/AKV core-binding factor alpha A subunit; core-binding factor, runt domain, alpha subunit 1; polyomavirus enhancer-binding protein 2 alpha A subunit; CCD; CCD1; OSF2; CBFA1; OSF-2; PEA2aA; PEBP2A2; PEBP2aA; MGC120022; MGC120023;
Gene ID	860
mRNA Refseq	NM_001015051
Protein Refseq	NP_001015051
MIM	600211
UniProt ID	Q13950
Chromosome Location	6p21
Pathway	Androgen Receptor Signaling Pathway, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; FGF signaling pathway, organism-specific

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	biosystem; Gene Expression, organism-specific biosystem; Generic Transcription 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;

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA