

Recombinant Human RUNX2 293 Cell Lysate

Cat. No. RUNX2-2107HCL **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Human
Source	HEK293
Description	Antigen standard for runt-related transcription factor 2 (RUNX2), transcript variant 3 is a lysate prepared from HEK293T cells transiently transfected with a TrueORF gene-carrying pCMV plasmid and then lysed in RIPA Buffer. Protein concentration was determined using a colorimetric assay. The antigen control carries a C-terminal Myc/DDK tag for detection.
Components	This product includes 3 vials: 1 vial of gene-specific cell lysate, 1 vial of control vector cell lysate, and 1 vial of loading buffer. Each lysate vial contains 0.1 mg lysate in 0.1 ml (1 mg/ml) of RIPA Buffer (50 mM Tris-HCl pH7.5, 250 mM NaCl, 5 mM EDTA, 50 mM NaF, 1% NP40). The loading buffer vial contains 0.5 ml 2X SDS Loading Buffer (125 mM Tris-Cl, pH6.8, 10% glycerol, 4% SDS, 0.002% Bromophenol blue, 5% beta-mercaptoethanol).
Size	0.1 mg
Storage Instruction	Store at -80°C. Minimize freeze-thaw cycles. After addition of 2X SDS Loading Buffer, the lysates can be stored at -20°C. Product is guaranteed 6 months from the date of shipment.

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Applications ELISA, WB, IP. WB: Mix equal volume of lysates with 2X SDS Loading Buffer. Boil the mixture for 10 min before loading (for membrane protein lysates, incubate the mixture at room temperature for 30 min). Load 5 ug lysate per lane.

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_004348](#)

Protein Refseq [NP_004339](#)

MIM [600211](#)

UniProt ID [Q13950](#)

Chromosome Location 6p21

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Pathway

Androgen Receptor Signaling Pathway, organism-specific biosystem; Endochondral Ossification, organism-specific biosystem; FGF signaling pathway, organism-specific 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;

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