

Datasheet for ABIN2780589

**anti-RUNX2 antibody (C-Term)**[Go to Product page](#)**2** Images**1** Publication

## Overview

Quantity:	100 µL
Target:	RUNX2
Binding Specificity:	C-Term
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Zebrafish (Danio rerio), Pig, Rabbit
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RUNX2 antibody is un-conjugated
Application:	Western Blotting (WB)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the C terminal region of human RUNX2
Sequence:	TTTSNGSTLL NPNLPNQNDG VDADGSHSSS PTVLNSSGRM DESVWRPY
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 93%, Horse: 100%, Human: 100%, Mouse: 100%, Pig: 100%, Rabbit: 83%, Rat: 100%, Zebrafish: 92%
Characteristics:	This is a rabbit polyclonal antibody against RUNX2. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	RUNX2
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## Target Details

Alternative Name:	RUNX2 ( <a href="#">RUNX2 Products</a> )
Background:	<p>RUNX2 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, acting 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, encoding different protein isoforms, result from alternate promoter use as well as alternate splicing. 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> <p>Alias Symbols: AML3, CBFA1, CCD, CCD1, MGC120022, MGC120023, OSF2, PEA2aA, PEBP2A1, PEBP2A2, PEBP2aA, PEBP2aA1, OSF-2</p> <p>Protein Interaction Partner: HDAC7, HDAC6, TP53, UBC, RB1, PML, HIF1A, SMURF1, SMAD1, SMURF2, HIVEP3, WWP1, FHL2, UBTF, SUV39H1, HDAC1, STAT3, SMAD3, RBM14, SOX9, NR0B2, EP300, HDAC5, HDAC4, HDAC3, CREBBP, XRCC5, HES1, XRCC6, BMPR1A, KAT2B, TLE1, YAP1, KAT6B, TAF1A, AXIN1, SMAD6, MAP</p> <p>Protein Size: 507</p>
Molecular Weight:	55 kDa
Gene ID:	860
NCBI Accession:	<a href="#">NM_004348</a> , <a href="#">NP_004339</a>

## Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 507 AA
Restrictions:	For Research Use only

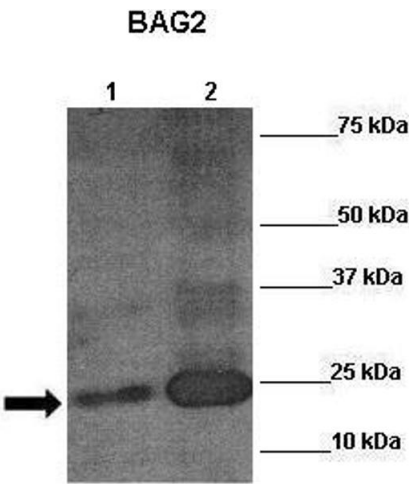
Handling

Format:	Liquid
Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Wang, He, Liu, Liu, Zhou, Hao, Sun, Wang: "Synergistic effects of overexpression of BMP-2 and TGF-β3 on osteogenic differentiation of bone marrow mesenchymal stem cells." in: <b>Molecular medicine reports</b> , Vol. 14, Issue 6, pp. 5514-5520, (2016) ( <a href="#">PubMed</a> ).
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Images



Western Blotting

**Image 1.** Sample Type: Lane 1:241 µg mouse mesenchymal stem cell lysate

Primary Antibody Dilution: 1:0000

Secondary Antibody: Anti-rabbit-HRP

Secondary Antibody Dilution: 1:00,000 Color/Signal

Descriptions: RUNX2

Gene Name: Anonymous

Submitted by:



Western Blotting

**Image 2.** WB Suggested Anti-RUNX2 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:2500 Positive Control: HepG2 cell lysate