

Datasheet for ABIN2780588
anti-RUNX2 antibody (N-Term)



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Overview

Quantity:	100 µL
Target:	RUNX2
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Guinea Pig, Horse, Zebrafish (Danio rerio)
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 N terminal region of human RUNX2
Sequence:	MRIPVDPSTS RRFSPSSSL QPGKMSDVSP VVAAQQQQQQ QQQQQQQQQ
Predicted Reactivity:	Cow: 92%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against RUNX2. It was validated on Western Blot.
Purification:	Affinity Purified

Target Details

Target:	RUNX2
Alternative Name:	RUNX2 (RUNX2 Products)

Target Details

Background: 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.

Alias Symbols: AML3, CBFA1, CCD, CCD1, MGC120022, MGC120023, OSF2, PEA2aA, PEBP2A1, PEBP2A2, PEBP2aA, PEBP2aA1, OSF-2

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

Protein Size: 507

Molecular Weight: 55 kDa

Gene ID: 860

NCBI Accession: [NM_004348](#), [NP_004339](#)

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

Handling Advice: Avoid repeated freeze-thaw cycles.

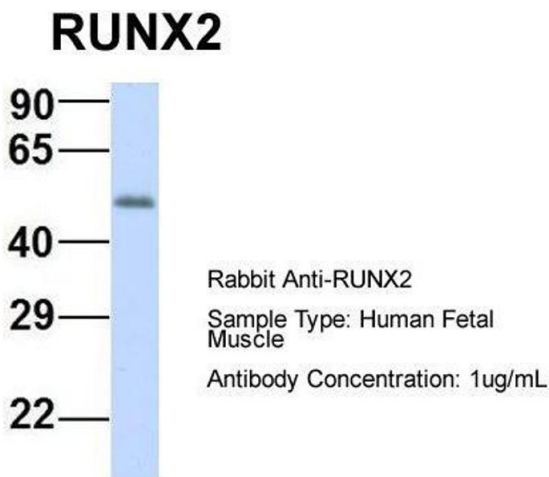
Storage: -20 °C

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: Gerhard, Wagner, Feingold, Shenmen, Grouse, Schuler, Klein, Old, Rasooly, Good, Guyer, Peck, Derge, Lipman, Collins, Jang, Sherry, Feolo, Misquitta, Lee, Rotmistrovsky, Greenhut, Schaefer, Buetow et al.: "The status, quality, and expansion of the NIH full-length cDNA project: the Mammalian Gene Collection (MGC). ..." in: **Genome research**, Vol. 14, Issue 10B, pp. 2121-7, (2004) ([PubMed](#)).

Images



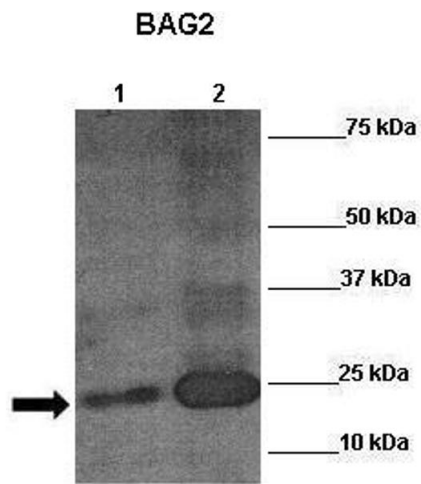
Western Blotting

Image 1. Host: Rabbit Target Name: RUNX2 Sample Type: Human Fetal Muscle Antibody Dilution: 1.0ug/ml



Western Blotting

Image 2. WB Suggested Anti-RUNX2 Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:312500 Positive Control: 721_B cell lysate RUNX2 is strongly supported by BioGPS gene expression data to be expressed in Human 721_B cells



Western Blotting

Image 3. 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:

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2780588.