

Datasheet for ABIN3043318  
**anti-RUNX1 antibody (Middle Region)**

4 Images

1 Publication

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## Overview

Quantity:	100 µg
Target:	RUNX1
Binding Specificity:	AA 200-233, Middle Region
Reactivity:	Human, Mouse, Rat
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This RUNX1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

## Product Details

Purpose:	Rabbit IgG polyclonal antibody for Runt-related transcription factor 1(RUNX1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.
Immunogen:	A synthetic peptide corresponding to a sequence in the middle region of human RUNX1(200-233aa ELEQLRRTAMRVSPHHPAPTNPASLNHSTAFN), identical to the related mouse and rat sequences.
Sequence:	ELEQLRRTAM RVSPHHPAPT PNPRASLNHS TAFN
Isotype:	IgG
Cross-Reactivity (Details):	No cross reactivity with other proteins.
Characteristics:	Rabbit IgG polyclonal antibody for Runt-related transcription factor 1(RUNX1) detection. Tested with WB, IHC-P in Human,Mouse,Rat.  Gene Name: runt-related transcription factor 1

## Product Details

Protein Name: Runt-related transcription factor 1

Purification: Immunogen affinity purified.

## Target Details

Target: RUNX1

Alternative Name: RUNX1 ([RUNX1 Products](#))

Background: Runt-related transcription factor 1 (RUNX1), also known as AML1 or CBFA2, is a protein that in humans is encoded by the RUNX1 gene. It belongs to the Runt-related transcription factor (RUNX) family of genes which are also called core binding factor- $\alpha$  (CBF $\alpha$ ). RUNX1 is mapped to 21q22.12. RUNX1 is a transcription factor that regulates the differentiation of hematopoietic stem cells into mature blood cells. RUNX proteins form a heterodimeric complex with CBF $\beta$  which confers increased DNA binding and stability to the complex. Chromosomal translocations involving the RUNX1 gene are associated with several types of leukemia including M2 AML. Mutations in RUNX1 are implicated in cases of breast cancer.

Synonyms: Acute myeloid leukemia 1 antibody|Acute myeloid leukemia 1 protein antibody|alpha subunit antibody|alpha subunit core binding factor antibody|AML 1 antibody|AML1 antibody|AML1 EVI 1 antibody|AML1 EVI 1 fusion protein antibody|Aml1 oncogene antibody|AMLCR 1 antibody|AMLCR1 antibody|CBF alpha 2 antibody|CBF-alpha-2 antibody|CBFA 2 antibody|CBFA2 antibody|Core binding factor alpha 2 subunit antibody|Core binding factor runt domain alpha subunit 2 antibody|Core-binding factor subunit alpha-2 antibody|EVI 1 antibody|EVI1 antibody|Oncogene AML 1 antibody|Oncogene AML-1 antibody|OTTHUMP00000108696 antibody|OTTHUMP00000108697 antibody|OTTHUMP00000108699 antibody|OTTHUMP00000108700 antibody|OTTHUMP00000108702 antibody|PEA2 alpha B antibody|PEA2-alpha B antibody|PEBP2 alpha B antibody|PEBP2-alpha B antibody|PEBP2A2 antibody|PEBP2aB antibody|Polyomavirus enhancer binding protein 2 alpha B subunit antibody|Polyomavirus enhancer-binding protein 2 alpha B subunit antibody|Run1 antibody|Runt related transcription factor 1 antibody|Runt-related transcription factor 1 antibody|RUNX 1 antibody|Runx1 antibody|RUNX1\_HUMAN antibody|SL3 3 enhancer factor 1 alpha B subunit antibody|SL3-3 enhancer factor 1 alpha B subunit antibody|SL3/AKV core binding factor alpha B subunit antibody|SL3/AKV core-binding factor alpha B subunit antibody

Gene ID: 861

UniProt: [Q01196](#)

## Application Details

Application Notes:	WB: Concentration: 0.1-0.5 µg/mL, Tested Species: Human, The detection limit for RUNX1 is approximately 0.25 ng/lane under reducing conditions. IHC-P: Concentration: 0.5-1 µg/mL, Tested Species: Human, Mouse, Rat, Epitope Retrieval by Heat: Boiling the paraffin sections in 10 mM citrate buffer, pH 6.0, for 20 mins is required for the staining of formalin/paraffin sections. Notes: Tested Species: Species with positive results. Other applications have not been tested. Optimal dilutions should be determined by end users.
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Comment:	Antibody can be supported by chemiluminescence kit ABIN921124 in WB, supported by ABIN921231 in IHC(P).
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Restrictions:	For Research Use only
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## Handling

Format:	Lyophilized
Reconstitution:	Add 0.2 mL of distilled water will yield a concentration of 500 µg/mL.
Concentration:	500 µg/mL
Buffer:	Each vial contains 5 mg BSA, 0.9 mg NaCl, 0.2 mg Na <sub>2</sub> HPO <sub>4</sub> , 0.05 mg Sodium azide.
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 freezing and thawing.
Storage:	4 °C/-20 °C
Storage Comment:	At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20 °C for a longer time. Avoid repeated freezing and thawing.

## Publications

Product cited in:	Jia, Ma, Lv, Ma, Xu, Yang, Tian, Wang, Sun, Xu, Fu, Zhao: "Oestrogen and parathyroid hormone alleviate lumbar intervertebral disc degeneration in ovariectomized rats and enhance Wnt/β-catenin pathway activity." in: <b>Scientific reports</b> , Vol. 6, pp. 27521, (2018) ( <a href="#">PubMed</a> ).  Jia, Jiang, Liu, Wang, Zhu, Zhu, Liu, Zhong, Xie, Huang, Jia, Li, Liu, Zuo, Cheng, Dai, Ren: "Effects
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of three-dimensional collagen scaffolds on the expression profiles and biological functions of glioma cells." in: **International journal of oncology**, Vol. 52, Issue 6, pp. 1787-1800, (2018) ([PubMed](#)).

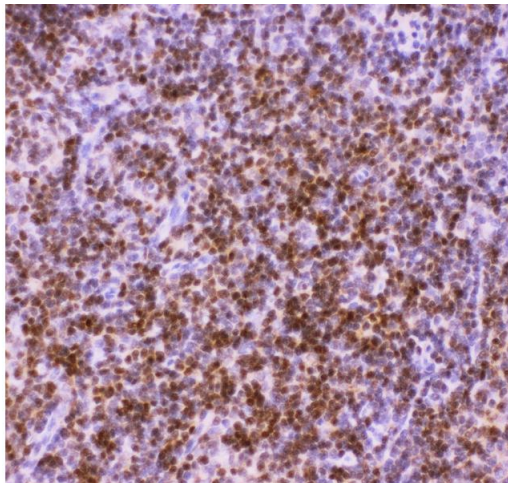
Ding, Teng, Fan, Zhao: "The Association Between Modic Changes of Lumbar Endplates and Spontaneous Absorption of Herniated Intervertebral Discs." in: **Cell biochemistry and biophysics**, Vol. 71, Issue 3, pp. 1357-63, (2016) ([PubMed](#)).

Yan, Tian, Wang, Cheng, Xu, Song, Zhang, Zhang: "Age dependent changes in cartilage matrix, subchondral bone mass, and estradiol levels in blood serum, in naturally occurring osteoarthritis in Guinea pigs." in: **International journal of molecular sciences**, Vol. 15, Issue 8, pp. 13578-95, (2015) ([PubMed](#)).

Xu, Zhang, Xu, Guo, Wang, Wu, Wang, Luo, Zhou: "Antiphotaging effect of conditioned medium of dedifferentiated adipocytes on skin in vivo and in vitro: a mechanistic study." in: **Stem cells and development**, Vol. 24, Issue 9, pp. 1096-111, (2015) ([PubMed](#)).

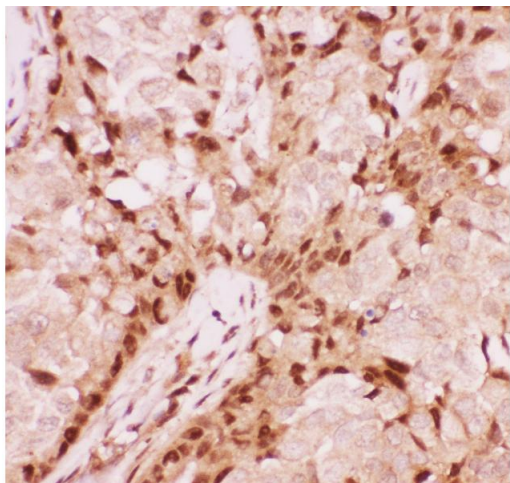
## Images

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### Immunohistochemistry

**Image 1.** Anti-RUNX1/AML1 Picoband antibody , IHC(P): Rat Thymus Tissue



#### Immunohistochemistry

**Image 2.** Anti-RUNX1/AML1 Picoband antibody , IHC(P):  
Human Mammary Cancer Tissue



#### Western Blotting

**Image 3.** Anti-RUNX1/AML1 Picoband antibody , All lanes:  
Anti RUNX1 at 0.5ug/ml WB: Recombinant Human RUNX1  
Protein 0.5ng Predicted bind size: 50KD Observed bind size:  
50KD

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN3043318.