

Product Datasheet

RUNX2/CBFA1 Antibody - BSA Free NBP2-24755

Unit Size: 0.1 mg

Store at -20C. Avoid freeze-thaw cycles.

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Publications: 5

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NBP2-24755**RUNX2/CBFA1 Antibody - BSA Free**

Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at -20C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	56.6 kDa

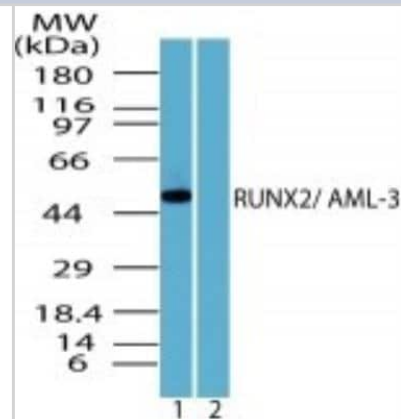
Product Description	
Description	Novus Biologicals Rabbit RUNX2/CBFA1 Antibody - BSA Free (NBP2-24755) is a polyclonal antibody validated for use in IHC and WB. Anti-RUNX2/CBFA1 Antibody: Cited in 5 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
Host	Rabbit
Gene ID	860
Gene Symbol	RUNX2
Species	Human, Mouse, Chicken, Equine, Goat, Primate
Reactivity Notes	Goat reactivity reported from a verified customer review.
Immunogen	This RUNX2/CBFA1 Antibody was developed against a synthetic peptide corresponding to somewhere between amino acids 250-300 of human RUNX2 was used as immunogen for RUNX2/CBFA1 Antibody. RUNX2 and RUNX1 share an approximate 66% homology in peptide sequence used as immunogen.

Product Application Details	
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunohistochemistry
Recommended Dilutions	Western Blot 1 - 3 ug/mL, Immunohistochemistry Validated for IHC from a verified customer review., Immunohistochemistry-Paraffin Validated from IHC-P from a verified customer review.

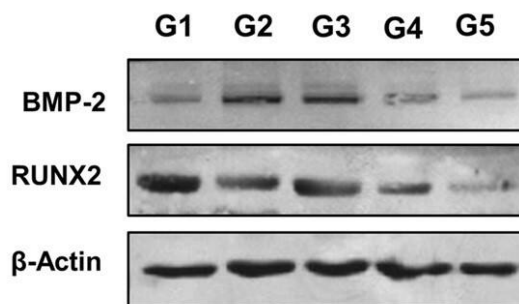


Images

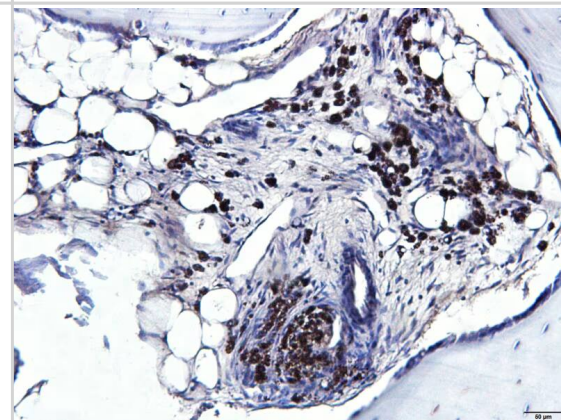
Western Blot: RUNX2/CBFA1 Antibody [NBP2-24755] - Analysis of human RUNX2 in Saos-2 cell lysate in the 1) absence and 2) presence of immunizing peptide using RUNX2 antibody at 2 ug/mL.



Western Blot: Rabbit Polyclonal RUNX2/CBFA1 Antibody [IMGENEX: IMG-5985A] [NBP2-24755] - Bone lysate homogenate from goats. SDS-PAGE with 0.3 mg of total protein from the homogenate per well. RUNX/CBFA1, NBP2-24755 was used at a dilution of 1:1000 and BMP-2, NBP1-32218 was used at a dilution of 1:1000 in TBS Tween and 5% milk powder. The protein was labeled at 70 kDa. Quantification of RUNX2 in bone graft in the tibia of intrailiac cellularized goats at different times compared with tibial autograft and untreated bone defect. Evaluation of pre-cellularized graft in the iliac crest in the treatment of bone defects in the tibia of goats. G1: cellularized graft for 4 weeks applied to the tibial bone defect, G2: cellularized graft for 6 weeks applied to the tibial bone defect, G3: cellularized graft for 8 weeks applied to the tibial bone defect, G4: tibial autograft and G5: untreated bone defect. All groups were evaluated 120 days after graft implantation. Image from a verified customer review.



The histological sections were deparaffinized, peroxidase blocked in methanol and 30% hydrogen peroxide (9:1), and antigen retrieval was performed with porcine gastric pepsin and HCl at pH 3.0 in an oven at 37°C for 30 minutes. Then, blocking with BSA was performed for 1 hour followed by incubation with the primary antibody RUNX2/CBA1 Antibody NBP2-24755 (1:100) overnight. Subsequently, excess primary antibody was removed with PBS pH 7.6 and incubated with the secondary antibody (goat anti-rabbit IgG - NB7160 (1:200) for 1 hour and polymer was applied for 30 minutes. Finally, 150 µL of DAB was applied for five minutes and counterstained with hematoxylin. Image from a verified customer review.



Publications

Bermudez G, Bernal C, Otolora A et al. Long Noncoding RNA TALAM1 Is a Transcriptional Target of the RUNX2 Transcription Factor in Lung Adenocarcinoma *Current Issues in Molecular Biology* 2023-08-24 [PMID: 37754231] (Western Blot, Mouse)

Bernal C, Otolora A, CaNas A et al. Regulatory Role of the RUNX2 Transcription Factor in Lung Cancer Apoptosis *International journal of cell biology* 2022-12-03 [PMID: 36510562] (KD, WB, Human)

Details:

Supplementary figure 3

Sharma T, Sharma A, Maheshwari R et al. Docosahexaenoic Acid (DHA) Inhibits Bone Morphogenetic Protein-2 (BMP-2) Elevated Osteoblast Potential of Metastatic Breast Cancer (MDA-MB-231) Cells in Mammary Microcalcification *Nutr Cancer* 2019-08-14 [PMID: 31409173]

Yen WF, Sharma R, Cols M et al. Role of RUNX2 transcription factor in epithelial mesenchymal transition in non-small cell lung cancer lung cancer: Epigenetic control of the RUNX2 P1 promoter *Tumour Biol.* 2019-05-01 [PMID: 31109257] (WB, Human)

Taniguchi N, Carames B, Hsu E et al. Expression patterns and function of chromatin protein HMGB2 during mesenchymal stem cell differentiation. *J Biol Chem.* 2011-12-02 [PMID: 21890638] (WB, Mouse)

Details:

RUNX2/AML-3 (IMG-5985A). WB: Mouse mesenchymalstem cells (MSC) from wild type and HMGB2 knockout mice: Fig 6D. WB: Chicken chondrocytes transfected with HMGB2, Fig 7G.





Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
nb-customerservice@bio-techne.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: nb-technical@bio-techne.com
Orders: nb-customerservice@bio-techne.com
General: novus@novusbio.com

Products Related to NBP2-24755

NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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