

Product Datasheet

Osteoprotegerin/TNFRSF11B Antibody (98A1071) - BSA Free NB100-56505

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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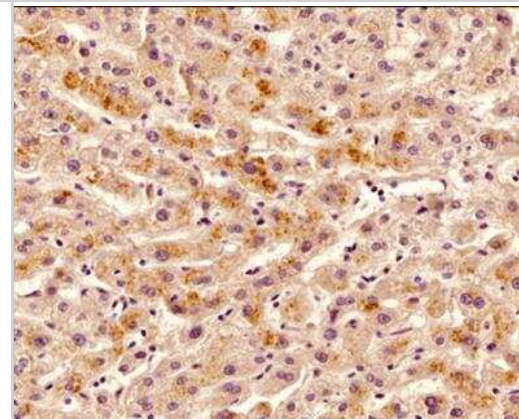
NB100-56505

Osteoprotegerin/TNFRSF11B Antibody (98A1071) - BSA Free

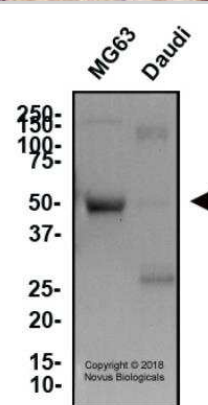
Product Information	
Unit Size	0.1 mg
Concentration	1.0 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	98A1071
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	4982
Gene Symbol	TNFRSF11B
Species	Human, Mouse, Rat, Rabbit
Reactivity Notes	Rabbit reactivity reported in scientific literature (PMID: 31658685).
Specificity/Sensitivity	The Osteoprotegerin antibody, clone 98A1071, detects all forms of Osteoprotegerin including monomeric, dimeric and Osteoprotegerin bound to RANKL (Vandooren, 2008) as well as Osteoprotegerin bound to TRAIL (Sandra, 2006).
Immunogen	A peptide corresponding to the amino acids 20-37 TQETFPPKYLHYDEETSH of human Osteoprotegerin was used as immunogen for this antibody.
Product Application Details	
Applications	Western Blot, ELISA, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunohistochemistry-Paraffin, Immunoprecipitation, CyTOF-ready
Recommended Dilutions	Western Blot 1 ug/ml, Flow Cytometry 0.2-1 ug/1 million cells, ELISA reported in scientific literature (PMID 15935726), Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence 1:20-1:1000. Use reported in scientific literature (Sandra (2006)), Immunoprecipitation 1:20-1:1000. Use reported in scientific literature (Sandra (2006)), Immunohistochemistry-Paraffin 1:100-1:1000, Immunohistochemistry-Frozen 1:20-1:1000. Use reported in scientific literature (Boumans (2012)), CyTOF-ready
Application Notes	This antibody is CyTOF ready.

Images

Immunohistochemistry-Paraffin: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - Human liver using 1:200 dilution of anti-Osteoprotegerin/TNFRSF11B antibody (clone 98A1071). The staining was developed with HRP labeled secondary antibody and DAB reagent, and nuclei of cells were counter-stained with hematoxylin. This Osteoprotegerin antibody generated a diffused but weak cytoplasmic staining with a very specific and strong punctate signal at the periphery of the cells.

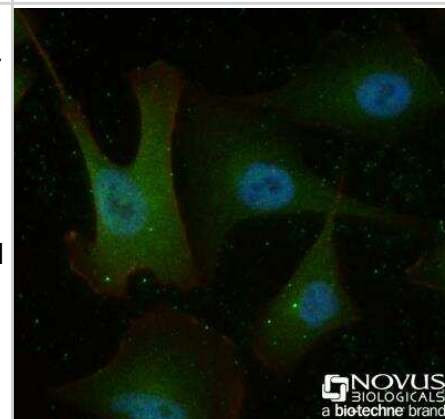


Western Blot: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - Total protein from human MG63 and Daudi cell lines was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 1.0 ug/ml anti-Osteoprotegerin in blocking buffer and detected with an anti-mouse HRP secondary antibody using chemiluminescence.

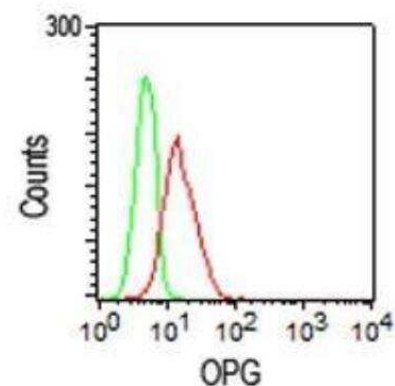


Immunocytochemistry/Immunofluorescence:

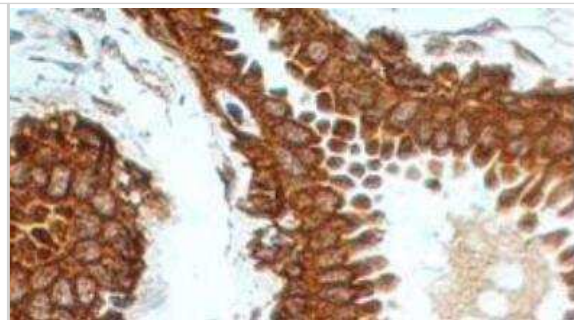
Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - MG-63 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X PBS + 0.05% Triton X-100. The cells were incubated with anti-Osteoprotegerin (98A1071) at 5 ug/ml overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective.



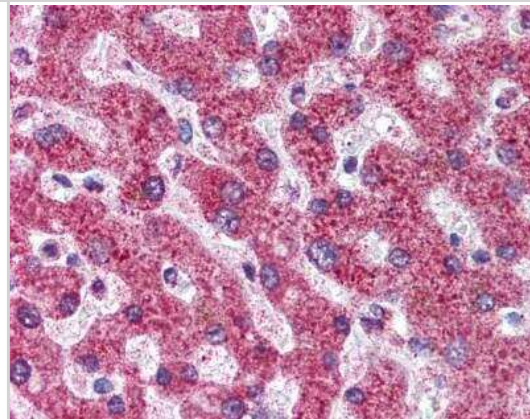
Flow Cytometry: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - Intracellular staining of 10^6 HeLa cells using 0.2 ug of OPG antibody, 0.5 ul of PE secondary.



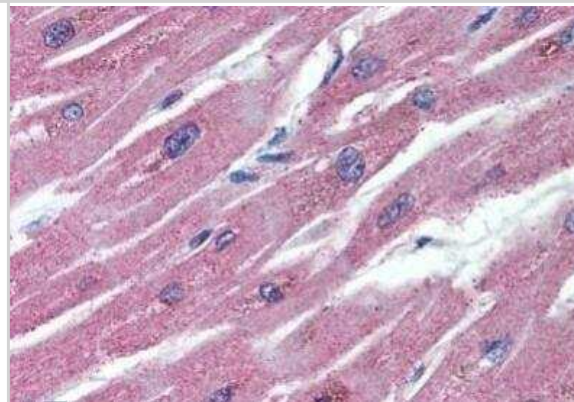
Immunohistochemistry-Paraffin: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - Human breast tissue stained with OPG antibody (5 ug/ml), peroxidase-conjugate and DAB chromogen.



Immunohistochemistry-Paraffin: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - Staining of human liver. Tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



Immunohistochemistry-Paraffin: Osteoprotegerin/TNFRSF11B Antibody (98A1071) [NB100-56505] - Staining of human heart tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.



Publications

Song A, Wang W, Zhang Y et al. Acetylsalicylic Acid Promotes Osteogenic Differentiation of Human Dental Pulp Mesenchymal Stem Cells and Regeneration of Alveolar Bone in Experimental Periodontitis Rats *Journal of Tissue Engineering and Regenerative Medicine* 2023-11-03 (IHC-P, Rat)

Details:

Dilution 1:50, Tissue type: axillas

Kresnodi U, Sari N, Laksono H Socket preservation using a combination of propolis extract and bovine bone graft towards the expression of receptor activator of nuclear κ B ligand and osteoprogenin *Folia Medica* 2023-10-31 (Immunohistochemistry, Guinea Pig)

Zhang W, Yu L, Wang F et al. Rosavin regulates bone homeostasis through HDAC1-induced epigenetic regulation of EEF2 *Chemico-biological interactions* 2023-09-09 [PMID: 37689331] (IHC, Mouse)

Miyata T, Minami M, Kataoka H et al. Osteoprotegerin Prevents Intracranial Aneurysm Progression by Promoting Collagen Biosynthesis and Vascular Smooth Muscle Cell Proliferation *Journal of the American Heart Association* 2020-09-01 [PMID: 32856519]

Kresnodi U, Laksono V, Dahlan A Expression and ratio of receptor activator of nuclear factor kappa-B ligand and osteoprotegerin following application of *Nigella sativa*/bovine bone graft combination in post tooth extraction sockets *The Journal of Indian Prosthodontic Society* 2023-07-14 (Immunohistochemistry-Paraffin, Guinea Pig)

Hild V, Mellert K, Möller P, Barth TFE Giant Cells of Various Lesions Are Characterised by Different Expression Patterns of HLA-Molecules and Molecules Involved in the Cell Cycle, Bone Metabolism, and Lineage Affiliation: An Immunohistochemical Study with a Review of the Literature *Cancers* 2023-07-21 [PMID: 37509363] (Immunohistochemistry-Paraffin, Human)

Details:

1:400 IHC-P dilution

Kumar K, Datta K, Fornace A, Suman S Total body proton and heavy-ion irradiation causes cellular senescence and promotes pro-osteoclastogenic activity in mouse bone marrow *Heliyon* 2022-01-01 [PMID: 35028468] (IHC-P, Mouse)

Sengun MC, Gunpinar S Effects of systemic hydroxytyrosol application in experimental periodontitis of rats *International Journal of Plant Based PHARMACEUTICALS* 2022-01-01 (IF/IHC, Rat)

Lysitska A, Galanis N, Skandalos I Et al. Histology and Immunohistochemistry of Radial Arteries Are Suggestive of an Interaction between Calcification and Early Atherosclerotic Lesions in Chronic Kidney Disease *Medicina* 2021-10-24 [PMID: 34833374] (IHC-P, Human)

Zhang Q, Chen T, Zhang Y, et al. MiR-30c-5p regulates adventitial progenitor cells differentiation to vascular smooth muscle cells through targeting OPG *Stem Cell Research & Therapy* 2021-12-01 [PMID: 33468212] (WB)

Jiang Y, Li J, Li G et al. Osteoprotegerin interacts with syndecan-1 to promote human endometrial stromal decidualization by decreasing Akt phosphorylation *Hum Reprod* 2020-11-01 [PMID: 33047116]

Bayer Alinca S, Saglam E, Zengin Celik T et al. Is low level laser therapy or ozone therapy more effective for bone healing? Understanding the mechanisms of HIF-1 α , RANKL and OPG *Biotech Histochem* 2020-04-15 [PMID: 32292090]

More publications at <http://www.novusbio.com/NB100-56505>



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 NB100-56505

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NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NB100-56505AF405	Osteoprotegerin/TNFRSF11B Antibody (98A1071) [Alexa Fluor® 405]

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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