

Product Datasheet

TRANCE/TNFSF11/RANK L Antibody (12A668) - BSA Free NB100-56512

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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NB100-56512

TRANCE/TNFSF11/RANK L Antibody (12A668) - 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	12A668
Preservative	0.02% Sodium Azide
Isotype	IgG1 Kappa
Purity	Protein G purified
Buffer	PBS
Target Molecular Weight	35 kDa

Product Description

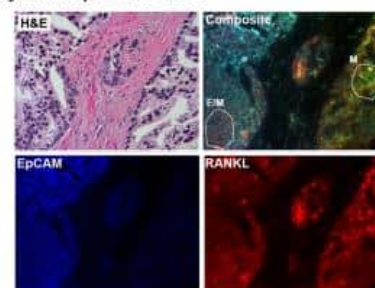
Host	Mouse
Gene ID	8600
Gene Symbol	TNFSF11
Species	Human, Mouse, Rat
Immunogen	A bacterially expressed fusion protein containing amino acid residues 1-317 of mouse TRANCE/TNFSF11/RANK L was used as immunogen.

Product Application Details

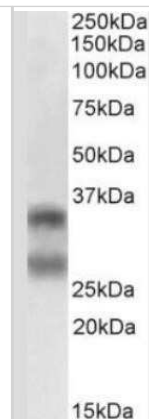
Applications	Western Blot, ELISA, Flow (Cell Surface), Immunoassay, Immunocytochemistry/Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Chromatin Immunoprecipitation (ChIP)
Recommended Dilutions	Western Blot 0.5-2 ug/ml, ELISA reported in scientific literature (PMID 15935726), Immunohistochemistry 1:10-1:500, Immunocytochemistry/Immunofluorescence 20 ug/ml, Immunohistochemistry-Paraffin 5 ug/ml, Immunoassay, Flow (Cell Surface), Chromatin Immunoprecipitation (ChIP) 1:10-1:500

Images

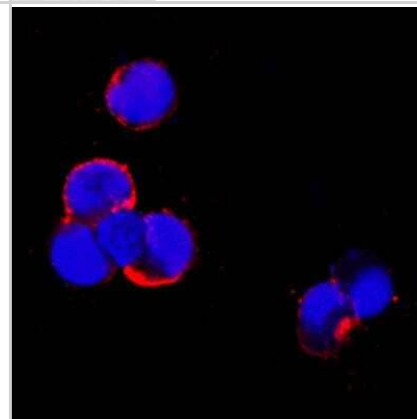
Immunohistochemistry: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512] - MQDL detects EMT biomarkers in clinical prostate cancer. EMT biomarkers (EpCAM, N-Cad, and RANKL) were detected in a clinical primary prostate cancer specimen (Gleason score 6; 3+3) with documented bone metastasis. M denotes cells that completed EMT and E/M indicates cells undergoing partial EMT. 400x. Image collected and cropped by CiteAb from the following publication (<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0028670>) licensed under a CC-BY license.

B Primary human prostate cancer

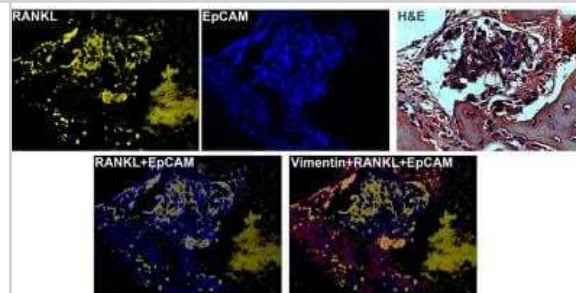
Western Blot: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512] - Analysis using Azide Free version of NB100-56512. Human lymph node lysate (35ug per lane, RIPA buffer). Band detected at ~35kDa and ~28kDa. (Expected MW of 35.5kDa according to NP_003692.1 and of 27.7kDa according to NP_143026.1)



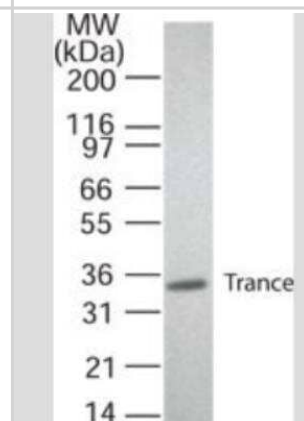
Immunocytochemistry/Immunofluorescence: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512] - TRANCE was detected in immersion fixed mouse splenocytes using anti-human/mouse/rat mouse monoclonal antibody (Catalog # NB100-56512) for 1 hour at room temperature. Cells were stained using NL557 (red) fluorescent anti-mouse secondary antibodies (Catalog # NL007) and counterstained with DAPI (blue).



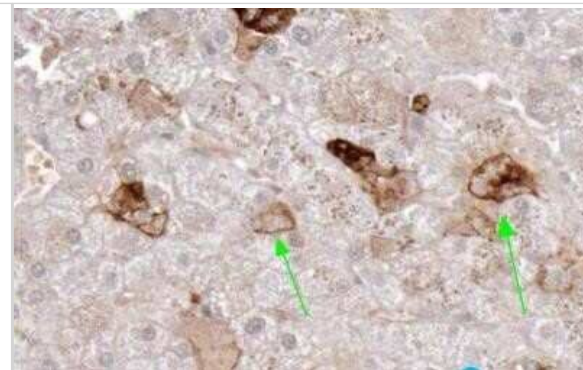
Immunohistochemistry: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512] - MQDL detects EMT biomarkers in clinical bone tissue specimens. A representative specimen of human prostate cancer bone metastasis co-expressed high levels of epithelial EpCAM, and mesenchymal RANKL and vimentin proteins. 400x. Image collected and cropped by CiteAb from the following publication (<https://journals.plos.org/plosone/article?id=10.1371/journal.pone.0028670>) licensed under a CC-BY license.



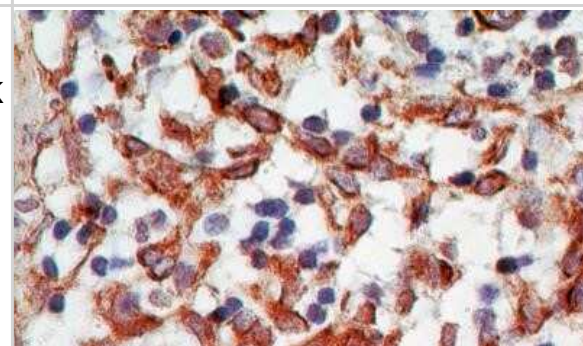
Western Blot: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512] - Analysis of transfected cell lysate was probed with TRANCE/TNFSF11/RANK L antibody.



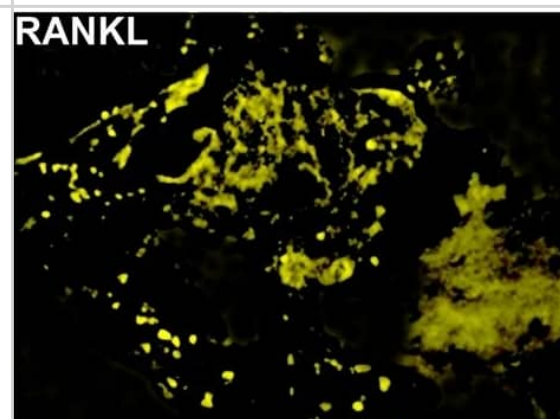
Immunohistochemistry-Paraffin: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512] - Analysis using Azide Free version of NB100-56512. FFPE human liver stained with TRANCE/TNFSF11/RANK L antibody, peroxidase-conjugate and DAB chromogen. A 2 hr incubation at RT was used.



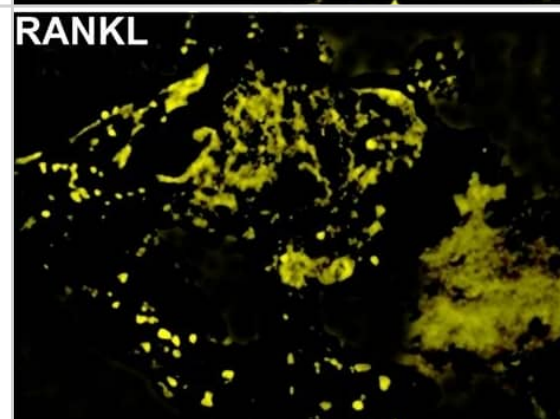
Immunohistochemistry-Paraffin: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512] - Analysis using Azide Free version of NB100-56512. FFPE human lymph node probed with TRANCE/TNFSF11/RANK L antibody.



MQDL detects EMT biomarkers in clinical bone tissue specimens. A representative specimen of human prostate cancer bone metastasis co-expressed high levels of epithelial EpCAM, and mesenchymal RANKL and vimentin proteins. ×400.



Immunocytochemistry/ Immunofluorescence: TRANCE/TNFSF11/RANK L Antibody (12A668) - BSA Free [NB100-56512] - MQDL detects EMT biomarkers in clinical bone tissue specimens. A representative specimen of human prostate cancer bone metastasis co-expressed high levels of epithelial EpCAM, & mesenchymal RANKL & vimentin proteins. ×400. Image collected & cropped by CiteAb from the following publication (<https://dx.plos.org/10.1371/journal.pone.0028670>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

F Wei, CJ Neal, TS Sakthivel, Y Fu, M Omer, A Adhikary, S Ward, KM Ta, S Moxon, M Molinari, J Asiatico, M Kinzel, SN Yarmolenko, V San Cheong, N Orlovskaya, R Ghosh, S Seal, M Coathup A novel approach for the prevention of ionizing radiation-induced bone loss using a designer multifunctional cerium oxide nanozyme Bioactive materials, 2022-09-21;21(0):547-565. 2022-09-21 [PMID: 36185749]

Fei Wei, Megan Hughes, Mahmoud Omer, Christopher Ngo, Abinaya Sindu Pugazhendhi, Elayaraja Kolanthai, Matthew Aceto, Yasmine Ghattas, Mehdi Razavi, Thomas J Kean, Sudipta Seal, Melanie Coathup A Multifunctional Therapeutic Strategy Using P7C3 as A Countermeasure Against Bone Loss and Fragility in An Ovariectomized Rat Model of Postmenopausal Osteoporosis. Advanced science (Weinheim, Baden-Wurttemberg, Germany) 2024-03-13 [PMID: 38477537]

Odo A, Kunimatsu R, Abe T et al. Stem cells derived from human exfoliated deciduous teeth-based media in a rat root resorption model Archives of Oral Biology 2023-11-01 [PMID: 38056228] (IHC, Rat)

Ding Y, Yang Y, Xu F et al. Early protection against bone stress injuries by mobilization of endogenous targeted bone remodeling iScience 2023-09-15 [PMID: 37664634] (Immunocytochemistry/ Immunofluorescence)

Kresnadi 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

Liu J, Yue J, Wang K et al. Tertiary Lymphoid Structures Are Related to Inflammatory Progression and Bone Loss in Human Apical Periodontitis Journal of endodontics 2023-06-17 [PMID: 37331649]

Wei F, Tuong ZK, Omer M et al. A novel multifunctional radioprotective strategy using P7C3 as a countermeasure against ionizing radiation-induced bone loss Bone research 2023-06-29 [PMID: 37385982] (IHC-P, Rat)

Kunimatsu R, Kimura A, Sakata S et al. Effects of baicalin on the proliferation and expression of OPG and RANKL in human cementoblast-lineage cells J Dent Sci 2022-01-14 [PMID: 35028034]

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)

Liu X, Zhu R, Luo Y et al. Distinct human Langerhans cell subsets orchestrate reciprocal functions and require different developmental regulation Immunity 2021-09-08 [PMID: 34508661]

More publications at <http://www.novusbio.com/NB100-56512>





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Products Related to NB100-56512

NBL1-17162	TRANSE/TNFSF11/RANK L Overexpression Lysate
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
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)

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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