

# 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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Updated 9/9/2025 v.20.1

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**NB100-56512**

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

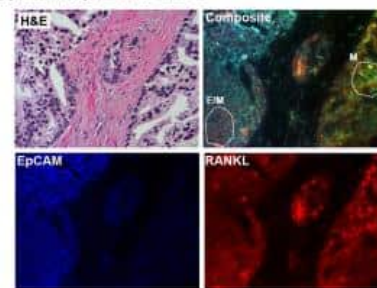
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1.0 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	12A668
<b>Preservative</b>	0.02% Sodium Azide
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	35 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse TRANCE/TNFSF11/RANK L Antibody (12A668) - BSA Free (NB100-56512) is a monoclonal antibody validated for use in IHC, WB, ELISA, ICC/IF and ChIP. Anti-TRANCE/TNFSF11/RANK L Antibody: Cited in 37 publications. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	8600
<b>Gene Symbol</b>	TNFSF11
<b>Species</b>	Human, Mouse, Rat
<b>Immunogen</b>	A bacterially expressed fusion protein containing amino acid residues 1-317 of mouse TRANCE/TNFSF11/RANK L was used as immunogen.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, ELISA, Flow (Cell Surface), Immunoassay, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Chromatin Immunoprecipitation (ChIP)
<b>Recommended Dilutions</b>	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.

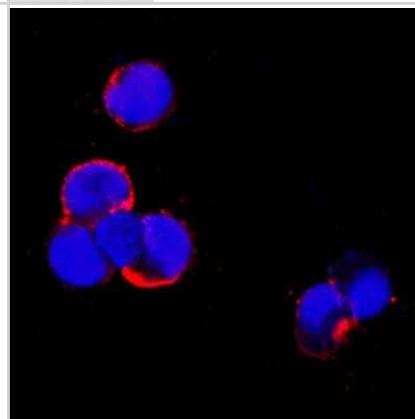
### B Primary human prostate cancer



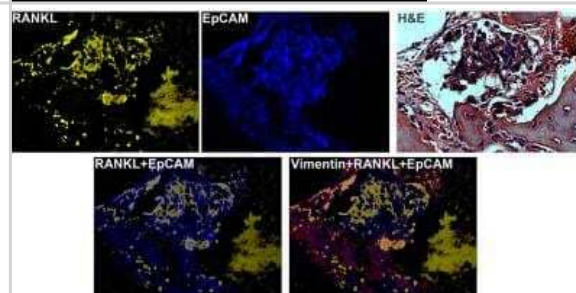
**Western Blot: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512]** - Analysis using Azide Free version of NB100-56512. Human lymph node lysate (35ug per lane, RIPA buffer). Band detected at ~35kDa and ~28kDa. (Expected MW of 35.5kDa according to NP\_003692.1 and of 27.7kDa according to NP\_143026.1)

250kDa  
150kDa  
100kDa  
75kDa  
50kDa  
37kDa  
25kDa  
20kDa  
15kDa

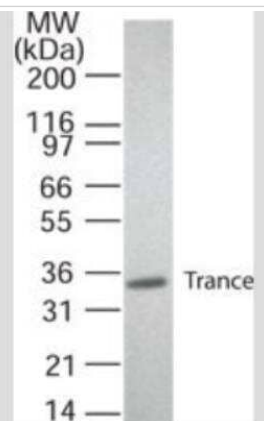
**Immunocytochemistry/Immunofluorescence: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512]** - TRANCE was detected in immersion fixed mouse splenocytes using anti-human/mouse/rat mouse monoclonal antibody (Catalog # NB100-56512) for 1 hour at room temperature. Cells were stained using NL557 (red)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



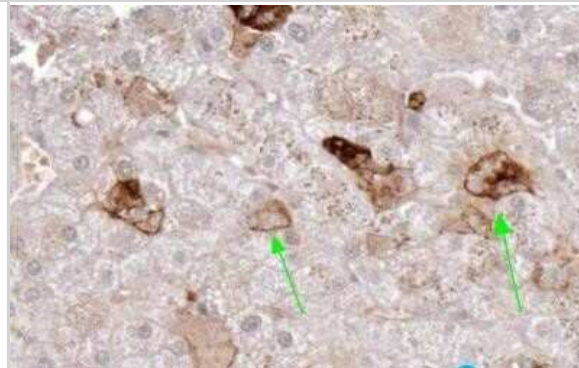
**Immunohistochemistry: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512]** - MQDL detects EMT biomarkers in clinical bone tissue specimens. A representative specimen of human prostate cancer bone metastasis co-expressed high levels of epithelial EpCAM, and mesenchymal RANKL and vimentin proteins. 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.



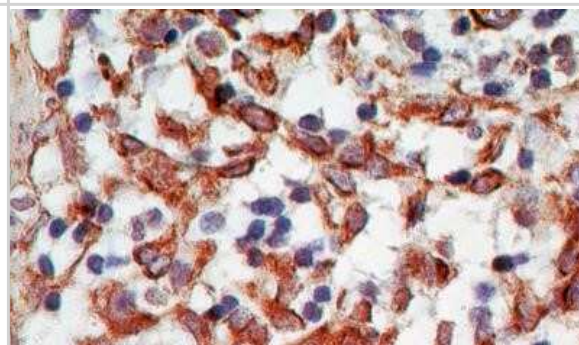
Western Blot: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512] - Analysis of transfected cell lysate was probed with TRANCE/TNFSF11/RANK L antibody.



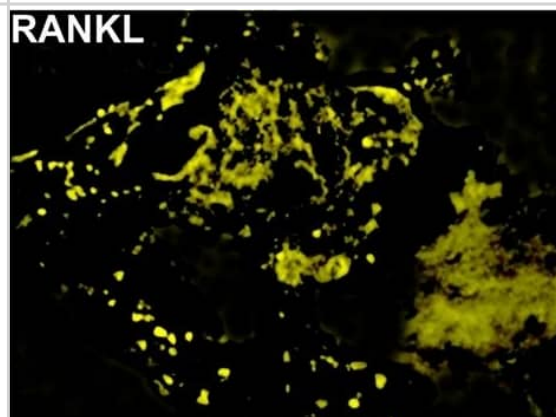
Immunohistochemistry-Paraffin: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512] - Analysis using Azide Free version of NB100-56512. FFPE human liver stained with TRANCE/TNFSF11/RANK L antibody, peroxidase-conjugate and DAB chromogen. A 2 hr incubation at RT was used.



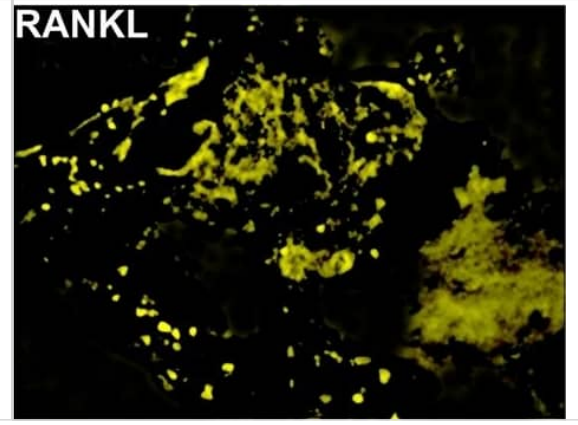
Immunohistochemistry-Paraffin: TRANCE/TNFSF11/RANK L Antibody (12A668) [NB100-56512] - Analysis using Azide Free version of NB100-56512. FFPE human lymph node probed with TRANCE/TNFSF11/RANK L antibody.



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.  $\times 400$ .



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.  $\times 400$ . 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

- Li H, Liu C, Zheng S et al. RANKL/PD-1 dual blockade demonstrates survival benefit for patients with advanced lung adenocarcinoma harboring KRAS mutations. *Cell Reports Medicine* 2025-07-16 [PMID: 40669444]
- 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]
- 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]
- 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-Wurtemberg, 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)
- 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
- 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)

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





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### **Products Related to NB100-56512**

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NBL1-17162	TRANCE/TNFSF11/RANK L Overexpression Lysate
NBP2-33376H	Blue Marker Antibody (6F4-F6) [HRP]
HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB7539	Goat anti-Mouse IgG (H+L) Secondary Antibody [HRP]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)

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### **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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