

# Product Datasheet

## **RANK/TNFRSF11A Antibody (64C1385.1) - BSA Free NBP2-24702**

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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### **Publications: 3**

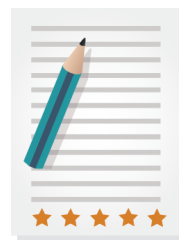
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Updated 9/9/2025 v.20.1

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**NBP2-24702**

RANK/TNFRSF11A Antibody (64C1385.1) - BSA Free

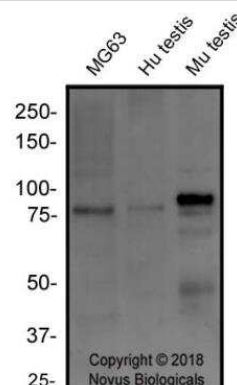
| Product Information |                                                                                        |
|---------------------|----------------------------------------------------------------------------------------|
| Unit Size           | 0.1 mg                                                                                 |
| 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               | 64C1385.1                                                                              |
| Preservative        | 0.05% Sodium Azide                                                                     |
| Isotype             | IgG1 Lambda                                                                            |
| Purity              | Protein G purified                                                                     |
| Buffer              | PBS                                                                                    |

| Product Description |                                                                                                                                                                                                                                                                                                           |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description         | Novus Biologicals Mouse RANK/TNFRSF11A Antibody (64C1385.1) - BSA Free (NBP2-24702) is a monoclonal antibody validated for use in IHC, WB, Flow, Dual RNAscope ISH-IHC and IP. Anti-RANK/TNFRSF11A Antibody: Cited in 3 publications. All Novus Biologicals antibodies are covered by our 100% guarantee. |
| Host                | Mouse                                                                                                                                                                                                                                                                                                     |
| Gene ID             | 8792                                                                                                                                                                                                                                                                                                      |
| Gene Symbol         | TNFRSF11A                                                                                                                                                                                                                                                                                                 |
| Species             | Human, Mouse                                                                                                                                                                                                                                                                                              |
| Immunogen           | A recombinant protein containing the extracellular domain (amino acids 33-208) of human RANK was used as immunogen.                                                                                                                                                                                       |

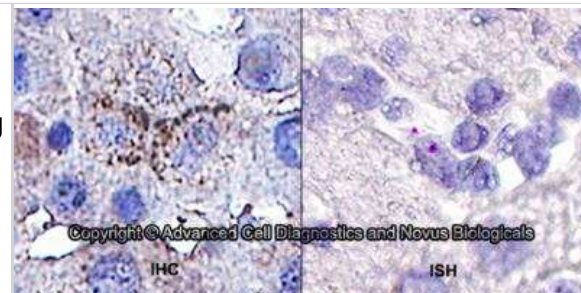
| Product Application Details |                                                                                                                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Applications                | Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunohistochemistry, Immunoprecipitation, CyTOF-ready, Dual RNAscope ISH-IHC                                                        |
| Recommended Dilutions       | Western Blot 1-2 ug/ml, Flow Cytometry 5 ug/10 <sup>6</sup> cells, Immunohistochemistry, Immunoprecipitation 1-2 ug/ml, Immunohistochemistry-Paraffin 5 ug/ml, CyTOF-ready, Dual RNAscope ISH-IHC |
| Application Notes           | This antibody is Cytof ready.                                                                                                                                                                     |

**Images**

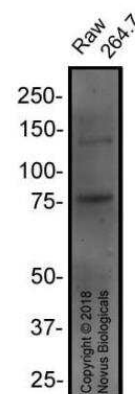
Western Blot: RANK/TNFRSF11A Antibody (64C1385.1) [NBP2-24702] - Total protein from MG63, human testis and mouse testis was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-RANK1 in 1% block buffer and detected with an anti-mouse HRP secondary antibody using chemiluminescence.



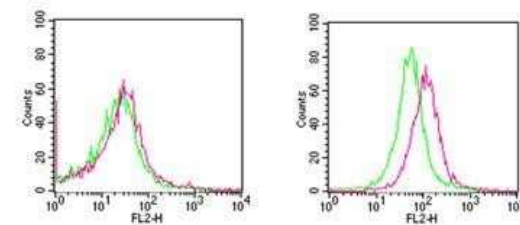
**Dual RNAscope ISH-IHC: RANK/TNFRSF11A Antibody (64C1385.1) [NBP2-24702]** - Formalin-fixed paraffin-embedded tissue sections of human liver were probed for RANK/TNFRSF11A mRNA (ACD RNAscope Probe, catalog # 412281; Fast Red chromogen, ACD catalog # 322360). Adjacent tissue section was processed for immunohistochemistry using mouse anti-human (Novus Biologicals catalog # NBP2-24702) at 5 ug/mL with overnight incubation at 4 degrees Celsius followed by incubation with anti-mouse IgG VisUCyte HRP Polymer Antibody (Catalog # VC001) and DAB chromogen (yellow-brown). Tissue was counterstained with hematoxylin (blue). IHC signal is confined to plasma membrane.



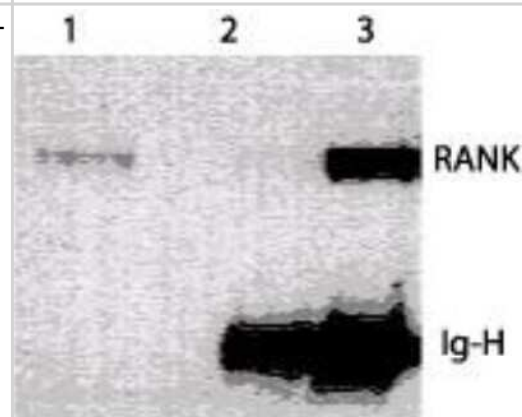
**Western Blot: RANK/TNFRSF11A Antibody (64C1385.1) [NBP2-24702]** - Total protein from Raw 264.7 was separated on a 7.5% gel by SDS-PAGE, transferred to PVDF membrane and blocked in 5% non-fat milk in TBST. The membrane was probed with 2.0 ug/ml anti-RANK1 in 1% block buffer and detected with an anti-mouse HRP secondary antibody using chemiluminescence.



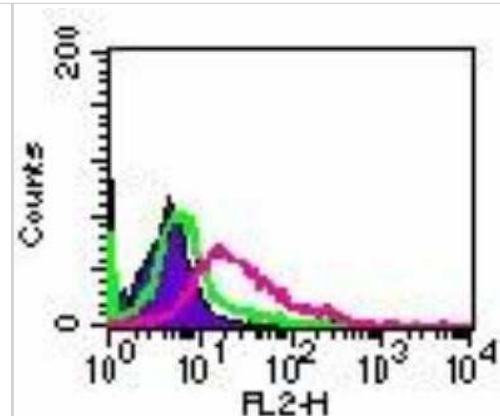
**Flow Cytometry: RANK/TNFRSF11A Antibody (64C1385.1) [NBP2-24702]** - Analysis of antibody on (a) untreated BALB/c mouse splenocytes and (b) BALB/c mouse splenocytes stimulated with 5 ug/ml ConA for 72 hours. Cells were stained with 2 ug of antibody per  $1 \times 10^6$  cells. Green represents isotype control; red represents antibody. Image using the PE format of this antibody.



**Western Blot: RANK/TNFRSF11A Antibody (64C1385.1) [NBP2-24702]** - Detection of RANK in RAW cells. Lane 1. detection of RANK in RAW, a mouse cell line. Lane 2 & 3. IP/analysis of RANK. RANK protein from RAW cell lysate was immunoprecipitated either with control antibody (lane 2) or this antibody. RANK was detected by western blot using this antibody.



Flow Cytometry: RANK/TNFRSF11A Antibody (64C1385.1) [NBP2-24702] - Analysis on RAW cells using 5 ug of antibody. Shaded histogram represents cells without antibody; green represents isotype control; purple represents antibody. Image using the PE format of this antibody.



## Publications

Feng Y, Tran MT, Lu Y et al. Rab34 plays a critical role as a bidirectional regulator of osteoclastogenesis Cell biochemistry and function 2022-03-14 [PMID: 35285960]

Tran Mt, Okusha Y, Feng Y Et Al. A novel role of HSP90 in regulating osteoclastogenesis by abrogating Rab11b-driven transport Biochimica et biophysica acta. Molecular cell research 2021-09-01 [PMID: 34242681]

Tran MT, Okusha Y, Feng Y et al. The Inhibitory Role of Rab11b in Osteoclastogenesis through Triggering Lysosome-Induced Degradation of c-Fms and RANK Surface Receptors International journal of molecular sciences 2020-12-08 [PMID: 33302495] (WB, Mouse)



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### **Products Related to NBP2-24702**

|              |                                                         |
|--------------|---------------------------------------------------------|
| HAF007       | Goat anti-Mouse IgG Secondary Antibody [HRP]            |
| NB720-B      | Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin] |
| NBP1-96982   | Mouse IgG1 Lambda Isotype Control (MG1L)                |
| NBP2-33256PE | RANK/TNFRSF11A Antibody (64C1385.1) [PE]                |

### **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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