

Anti-RANK Picoband Antibody
Catalog # ABO12103**Specification**

Anti-RANK Picoband Antibody - Product Information

Application	WB
Primary Accession	O35305
Host	Rabbit
Reactivity	Mouse
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for Tumor necrosis factor receptor superfamily member 11A(TNFRSF11A) detection. Tested with WB, ELISA in Mouse.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-RANK Picoband Antibody - Additional Information

Gene ID 21934

Other Names

Tumor necrosis factor receptor superfamily member 11A, Osteoclast differentiation factor receptor, ODFR, Receptor activator of NF-KB, CD265, Tnfrsf11a, Rank

Calculated MW

66621 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Mouse , -
ELISA , 0.1-0.5 µg/ml, Mouse

Subcellular Localization

Cell membrane ; Single-pass type I membrane protein .

Tissue Specificity

Ubiquitous expression with high levels in trabecular bone, thymus, small intestine, lung, brain and kidney. Weakly expressed in spleen and bone marrow.

Protein Name

Tumor necrosis factor receptor superfamily member 11A

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E. coli-derived mouse RANK recombinant protein (Position: C35-S214). Mouse RANK shares 95.6% amino acid (aa) sequence identity with rat RANK.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins.

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Anti-RANK Picoband Antibody - Protein Information

Name Tnfrsf11a

Synonyms Rank

Function

Receptor for TNFSF11/RANKL/TRANCE/OPGL; essential for RANKL- mediated osteoclastogenesis (PubMed: 9878548, PubMed: 23478294, PubMed: 20483727). Its interaction with EEIG1 promotes osteoclastogenesis via facilitating the transcription of NFATC1 and activation of PLCG2 (PubMed: 23478294). Involved in the regulation of interactions between T-cells and dendritic cells (PubMed: 9367155).

Cellular Location

Cell membrane {ECO:0000250|UniProtKB:Q9Y6Q6}; Single-pass type I membrane protein. Membrane raft

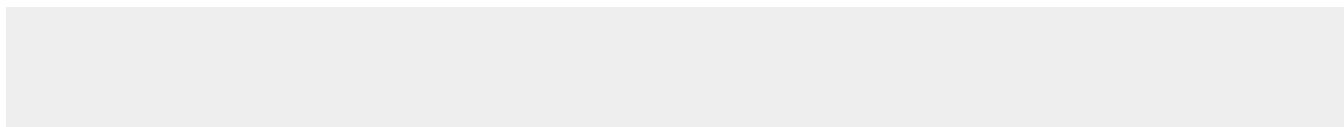
Tissue Location

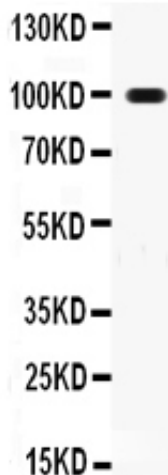
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Anti-RANK Picoband Antibody - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-RANK Picoband Antibody - Images



Anti- RANK Picoband antibody, ABO12103, Western blotting All lanes: Anti RANK (ABO12103) at 0.5ug/ml WB: HEPA Whole Cell Lysate at 40ug Predicted bind size: 66KD Observed bind size: 100KD

Anti-RANK Picoband Antibody - Background

Receptor Activator of Nuclear Factor κ B (RANK), also known as TRANCE Receptor, is a type I membrane protein that is expressed on the surface of osteoclasts and is involved in their activation upon ligand binding. RANK is also expressed on dendritic cells and facilitates immune signaling. RANKL (Receptor Activator for Nuclear Factor κ B Ligand) is found on the surface of stromal cells, osteoblasts, and T cells. By analysis of somatic cell and radiation hybrid panels, Anderson et al. (1997) mapped the RANK gene to 18q22.1.