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Anti-RANK Picoband Antibody

Catalog # ABO12103

Product Information

Application	WB, E
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.

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
Application Details	Western blot, 0.1-0.5 □g/ml, Mouse , - ELISA , 0.1-0.5 □g/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.
Source	Eukaryota
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 r˚Constitution, 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.

Protein Information

Name	Tnfrsf11a
Synonyms	Rank
Function	Receptor for TNFSF11/RANKL/TRANCE/OPGL; essential for RANKL- mediated osteoclastogenesis (PubMed:20483727, PubMed:23478294, PubMed:9878548). 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 Note=Following TNFSF11/RANKL stimulation, recruited to lipid rafts along with STAC2.
Tissue Location	Ubiquitous expression with high levels in trabecular bone, thymus, small intestine, lung, brain and kidney Weakly expressed in spleen and bone marrow

Background

Receptor Activator of Nuclear Factor □ 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 □ 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.

Images



Anti- RANK Picoband antibody, ABO12103, Western blottingAll lanes: Anti RANK (ABO12103) at 0.5ug/mlWB: HEPA Whole Cell Lysate at 40ugPredicted bind size: 66KDObserved bind size: 100KD

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