

Datasheet for 210-401-C22**RANKL Antibody****Overview**

Description:	Anti-Mouse RANK-L (RABBIT) Antibody - 210-401-C22
Item No.:	210-401-C22
Size:	100 µg
Applications:	WB
Reactivity:	Mouse
Host Species:	Rabbit

Product Details

Background:	Anti-RANK L antibody is useful in studying the regulating NF-kB activation. Secreted cytokine RANKL (Receptor Activator of Nuclear factor kappa-B Ligand) is critically involved in osteoclastic differentiation and activation and in the regulation of specific immunity. RANKL exists as a homotrimer, is glycosylated, and occurs in 3 forms: cell-bound RANKL, which is expressed by osteoblast lineage cells, soluble RANKL (sRANKL), which is expressed by activated T lymphocytes, and a truncated ectodomain form derived from the cell-bound RANK Ligand, which is enzymatically processed by TACE (TNF-alpha converting enzyme (TACE; ADAM-17)). All three forms stimulate their specific receptor, RANK, which is located on osteoclastic and dendritic cells. RANKL binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. RANKL augments the ability of dendritic cells to stimulate naive T-cell proliferation. It may be an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immune response. Expression of RANKL is highest in the peripheral lymph nodes, weak in spleen, peripheral blood leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach and thyroid and is up-regulated by T-cell receptor stimulation. RANKL is secreted in the soluble form.
Synonyms:	rabbit anti-RANK-L Antibody, Receptor activator of nuclear factor kappa B, TNF-related activation-induced cytokine, TRANCE, Tumor necrosis factor ligand superfamily member 11, TNF11, TNFRSF11, Osteoprotegerin ligand, OPG, Osteoclast differentiation factor, ODF, CD254
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	Tnfsf11
Reactivity:	Mouse
Immunogen Type:	Recombinant Protein
Immunogen:	This IgG fraction antibody was prepared from rabbit antiserum after repeated immunizations with recombinant truncated mouse RANKL protein (aa 143-316) produced in E.coli.
Purity/Specificity:	Anti-RANK L antibody is an IgG fraction antibody purified from monospecific antiserum by a multi-step process which includes delipidation, salt fractionation and ion exchange chromatography followed by extensive dialysis against the buffer stated above. This antibody is specific for mouse RANKL protein. A BLAST analysis was used to suggest cross-reactivity with RANKL from mouse sources based on 100% homology with the immunizing sequence. Based on 97% homology, cross-reactivity with rat, 91% with Chinese hamster, 90% with Thirteen-lined ground squirrel; other sources has not been determined.
Relevant Links:	• UniProtKB - O35235 • NCBI - NP_035743.2 • GeneID - 21943

Application Details

Tested Applications:	WB
Application Note:	This purified antibody has been tested in western blotting and suitable for ELISA. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 19-20 kDa in size corresponding to the mature mouse RANKL protein by western blotting in appropriate cell lysate or extract.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000
WB:	1:1000

Formulation

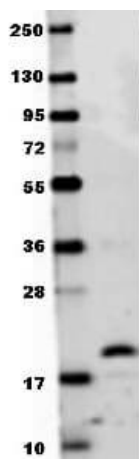
Physical State:	Lyophilized
Concentration:	1.0 mg/mL by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2

Preservative:	None
Stabilizer:	None
Reconstitution Volume:	100 μ L
Reconstitution Buffer:	Restore with deionized water (or equivalent)

Shipping & Handling

Shipping Condition:	Ambient
Storage Condition:	Store antibody at 4° C prior to restoration. For extended storage aliquot contents and freeze at -20° C or below. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Western Blot

Anti-mouse RANKL antibody in western blot shows detection of recombinant mouse RANKL raised in E.coli. Recombinant truncated protein (0.1 μ g, 19.9 kDa) was loaded on to an SDS-PAGE gel, and after separation, transferred to nitrocellulose. The membrane was blocked with 1% BSA in TBST for 30 min at RT, followed by incubation with Rockland's Anti-Mouse RANKL antibody diluted 1:1,000 in 1% BSA in TBST overnight at 4°C. After washes, the blot was reacted with secondary antibody Dylight™ 649 Conjugated Anti-Rabbit IgG (H&L) (Goat) Antibody (611-143-122) diluted 1:20,000 in blocking buffer (p/n MB-070) for 30 min. at RT. Data was collected using Bio-Rad VersaDoc® 4000 MP imaging system.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.