

Datasheet for 200-301-I06**RANK Antibody****Overview**

Description:	Anti-RANK (MOUSE) Monoclonal Antibody - 200-301-I06
Item No.:	200-301-I06
Size:	100 µg
Applications:	FC, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Mouse

Product Details

Background:	Anti-RANK Antibody detects human Rank. Apoptosis, or programmed cell death, occurs during normal cellular differentiation and development of multicellular organisms. Apoptosis is induced by certain cytokines including TNF and Fas ligand of the TNF family through their death domain containing receptors, TNFR1 and Fas. RANK, or Receptor activator of NF-κB, TNF11aR, ODFR, CD265, is a member of the TNFR superfamily with no significant homology to other members of this family. RANK ligand (RANKL/TRANCE/ OPGL) binds to RANK on dendritic cells, upregulates the expression of anti-apoptotic protein Bcl-XL suggesting a role in dendritic cell survival. The cytoplasmic domain of RANK interacts with TRAF2, TRAF5 and TRAF6. Overexpression of RANK activates NF-κB and c-Jun-terminal kinase (JNK) pathways. Recent studies have shown that RANK interaction with TRAF6 activates NF-κB, whereas JNK activation is mediated through binding of RANK to TRAF2. Anti-RANK Antibody is ideal for investigators involved in apoptosis and NFκappaB research.
Synonyms:	RANK, Tumor necrosis factor receptor superfamily member 11A, Osteoclast differentiation factor receptor, ODFR, Receptor activator of NF-KB, CD265
Host Species:	Mouse
Clonality:	Monoclonal
Clone ID:	9A725
Format:	IgG1

Target Details

Gene Name:	TNFRSF11A
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Reactivity:	Human, Mouse
Immunogen Type:	Recombinant Protein
Immunogen:	RANK Antibody was produced in mice prepared by repeated immunizations with a fusion protein containing internal amino acids from the human RANK protein.
Purity/Specificity:	Anti-RANK Antibody was purified by Protein G chromatography. A BLAST analysis was used to suggest cross-reactivity with Anti-RANK from Human and Mouse based on 100% homology with the immunizing sequence. Cross-reactivity with Anti-RANK from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9Y6Q6 • NCBI - NP_003830.1 • GeneID - 8792

Application Details

Tested Applications:	FC, IHC, WB
Application Note:	Anti-RANK Antibody is tested for use in WB, Flow, Flow-CS, IHC, and IHC-P. Expect a band approximately 90kDa on specific lysates. Specific conditions for reactivity should be optimized by the end user.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	2-4 µg/mL
WB:	1-2 µg/mL

Formulation

Physical State:	Liquid
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:	0.02% (w/v) Sodium Azide

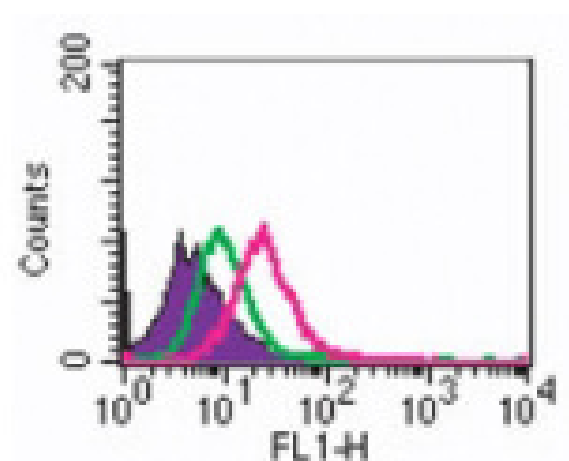
Shipping & Handling

Shipping Condition:	Dry Ice
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Storage Condition: Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. 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 one (1) year from date of receipt.

Images



Flow Cytometry

Flow Cytometry of Mouse Anti-RANK antibody. Cells: 10^6 RAW. Stimulation: none. Primary Antibody: RAW antibody at 2 µg/mL (red) and isotype control (green).

Secondary Antibody:



Western Blot

Western Blot of Mouse Anti-RANK antibody. Lane 1: 293 transfected 293 cells. Primary antibody: RANK antibody at 2 µg/mL for overnight at 4°C. Secondary antibody: IRDye800™ mouse secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 80 kDa for RANK. Other band(s): none.

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.