

Product Datasheet

RANK/TNFRSF11A Antibody (9A725) [PE] NB100-56029

Unit Size: 0.1 ml

Store at 4C in the dark.

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NB100-56029

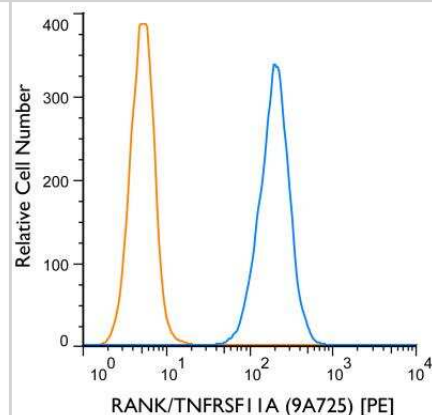
RANK/TNFRSF11A Antibody (9A725) [PE]

Product Information	
Unit Size	0.1 ml
Concentration	Please see the vial label for concentration. If unlisted please contact technical services.
Storage	Store at 4C in the dark.
Clonality	Monoclonal
Clone	9A725
Preservative	0.05% Sodium Azide
Isotype	IgG1 Kappa
Conjugate	PE
Purity	Protein G purified
Buffer	PBS
Product Description	
Host	Mouse
Gene ID	8792
Gene Symbol	TNFRSF11A
Species	Human, Mouse, Rat, Avian
Reactivity Notes	Rat reactivity reported in scientific literature (PMID: 24376119). Not yet tested in other species.
Specificity/Sensitivity	In RAW cells, a 97 kDa is observed.
Immunogen	A fusion protein containing amino acid residues 326-616 of human RANK was used as immunogen. This antibody recognizes an epitope located between amino acid residues 330-427 of human RANK (NP_003830).
Product Application Details	
Applications	Western Blot, Flow Cytometry, Flow (Cell Surface), Flow (Intracellular), Immunohistochemistry, Immunohistochemistry-Paraffin
Recommended Dilutions	Western Blot, Flow Cytometry 1ul/1 million cells, Immunohistochemistry 1:10-1:500, Immunohistochemistry-Paraffin, Flow (Cell Surface), Flow (Intracellular)
Application Notes	Optimal dilution of this antibody should be experimentally determined.

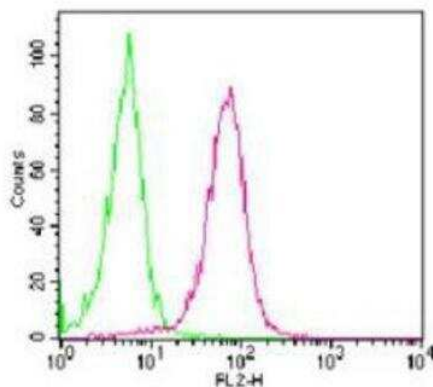


Images

Flow Cytometry: RANK/TNFRSF11A Antibody (9A725) [PE] [NB100-56029] - An intracellular stain was performed on K-562 cells with RANK/TNFRSF11A (9A725) antibody NB100-56029 (blue) and a matched isotype control NBP1-97005PE (orange). Cells were fixed with 4% PFA and then permeablized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature. Both antibodies were conjugated to Phycoerythrin.



Flow Cytometry: RANK/TNFRSF11A Antibody (9A725) [PE] [NB100-56029] - Intracellular flow analysis of RANK in RAW cells using 0.5 ug of RANK antibody. Green histogram represents isotype control antibody (NB100-56029); red represents RANK antibody.



Publications

Lafferty MK, Fantry L, Bryant J et al. Elevated suppressor of cytokine signaling-1 (SOCS-1): a mechanism for dysregulated osteoclastogenesis in HIV transgenic rats Pathog Dis 2013-12-09 [PMID: 24376119] (Flow-CS, Rat)

Details:

This citation used the PE version of this antibody.

Ayon Haro ER, Ukai T, Yokoyama M et al. Locally administered interferon-gamma accelerates lipopolysaccharide-induced osteoclastogenesis independent of immunohistological RANKL upregulation. J Periodontal Res. 2011-06-01 [PMID: 21361961] (Flow-CS, Mouse)

Details:

RANK-PE, clone 9A725 (IMG-128D). Flow (cell surface): Primary mouse bone marrow macrophages. By flow cytometry analysis, ~95% of the bone marrow macrophage population was positive for RANK and CD11b (data described on page 363). Note: The RANK-PE mAb was used to help characterize the primary bone macrophages isolated from mouse tibiae and femurs (see Material and Methods, page 363).

Crockett JC, Mellis DJ, Shennan KI et al. Signal peptide mutations in RANK prevent downstream activation of NF- κ B. J Bone Miner Res. 2011-08-01 [PMID: 21472776]

Details:

RANK/TNF11aR/ODFR (IMG-128A). WB: 293 cells transfected with RANK, Fig 1. Note: The specificity of the RANK antibody (IMG-128A) was transfected validated by WB in Rank transfected 293 cell line, Fig 1.

Riegel A, Maurer T, Prior B et al. Human polymorphonuclear neutrophils express RANK and are activated by its ligand, RANKL. Eur J Immunol. 2012-04-01 [PMID: 22531921] (Flow Cytometry Control, Flow-CS)

Details:

Antibody cited: RANK-PE, clone 9A725 (IMG-128D) for Flow (cell surface) + Flow (intracellular): 1. Whole blood and isolated polymorphonuclear neutrophils (PMNs): Figs 1, 3, 4, S1-S3. 3BS1, S2, polymorphonuclear neutrophils (PMNs) Notes: 1. RANK expression

Cannon JG, Kraj B, Sloan G. Follicle-stimulating hormone promotes RANK expression on human monocytes. Cytokine. 2011-02-01 [PMID: 21159522] (Flow Cytometry Control, Human)

Bharti AC, Takada Y, Shishodia S, Aggarwal BB. Evidence that receptor activator of nuclear factor (NF)-kappaB ligand can suppress cell proliferation and induce apoptosis through activation of a NF-kappaB-independent and TRAF6-dependent mechanism. J Biol Chem. 2004-02-13 [PMID: 14645259] (WB, Flow-CS)

Lee B, Kim TH, Jun JB et al. Direct inhibition of human RANK+ osteoclast precursors identifies a homeostatic function of IL-1beta. J Immunol. 2010-11-15 [PMID: 20935210] (Human)

Details:

RANK, clone 9A725 (IMG-128A). WB: Fig 2C (primary human monocyte-derived preosteoclasts). RANK was detected at 97 kDa. IL-1B treatment down regulated RANK expression.

Izawa T, Zou W, Chappel JC et al. c-Src links a RANK/avB3 integrin complex to the osteoclast cytoskeleton. Mol Cell Biol. 2012-07-01 [PMID: 22615494] (WB, Mouse)

Details:

RANK (IMG-128A). 1. WB: Mice Splenocytes, Figure 1, 2C, 2D, & 2E.

Huang G, Wen Q, Gao Q et al. An efficient and rapid method for cDNA cloning from difficult templates using codon optimization and SOE-PCR: with human RANK and TIMP2 gene as examples. Biotechnol Lett. 2011-10-01 [PMID: 21660576]

Details:

Antibody cited: RANK, clone 9A725 (IMG-128A). 1. WB: Fig 4b (RANK-transfected A549 cells). Recombinantly expressed RANK was detected at 97 kDa. A549 transfected with an empty plasmid were used as a negative control as A549 cells lack endogenous expression of

Fiumara P, Snell V, Li Y et al. Functional expression of receptor activator of nuclear factor kappaB in Hodgkin disease cell lines. Blood. 2001-11-01 [PMID: 11675352] (IHC-P, WB)



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Products Related to NB100-56029

NBP1-43319PE-0.5ml	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1) [PE]
NB100-56508APC	RANK/TNFRSF11A Antibody (9A725) [Allophycocyanin]
NB100-56396PEP	RANK/TNFRSF11A Antibody Blocking Peptide
210-TA-005	TNF-alpha [Unconjugated]

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