

Product datasheet for TA336373

RANK (TNFRSF11A) Mouse Monoclonal Antibody [Clone ID: 9A725]

Product data:

Product Type:	Primary Antibodies
Clone Name:	9A725
Applications:	FC, WB
Recommend Dilution:	WB: 1-2 ug/ml, FC: 2-4 ug/ml, IHC: 1:10-1:500, IHC-P: 1:10-1:500
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG1, kappa
Clonality:	Monoclonal
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).
Formulation:	PBS containing 0.05% BSA, 0.05% Sodium Azide. Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Concentration:	0.5 mg/ml
Purification:	Protein G purified
Gene Name:	tumor necrosis factor receptor superfamily member 11a
Database Link:	NP_003830 Entrez Gene 21934 Mouse Entrez Gene 8792 Human
Background:	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. Receptor activator of NF-kB (RANK) is a recently cloned 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-kB and c-Jun-terminal kinase (JNK) pathways. Recent studies have shown that RANK interaction with TRAF6 activates NF-kB, whereas JNK activation is mediated through binding of RANK to TRAF2.
Synonyms:	CD265; FEO; LOH18CR1; ODFR; OFE; OPTB7; OST5; PDB2; RANK; TRANCER



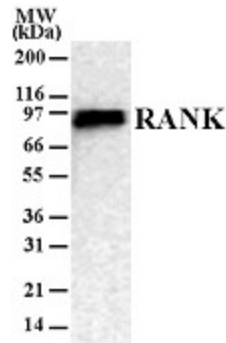
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Note: Bharti et al (2004) and Reigel et al (2012) both published the RANK antibody clone 9A725 for Flow (Cell Surface). However, the epitope range recognized by this antibody is a potential cytoplasmic region as defined by www.uniprot.org. Hence, researchers are encouraged to refer to both the publication and the bioinformatics data bases for additional information in order to make their own determination regarding the suitability of the antibody for cell surface flow cytometry.

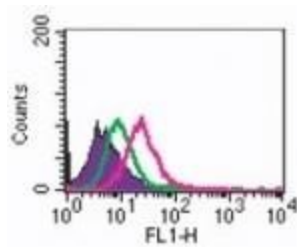
Protein Families: Druggable Genome, Transmembrane

Protein Pathways: Cytokine-cytokine receptor interaction

Product images:



Western Blot: RANK Antibody (9A725) TA336373 - Analysis of RANK in transfected 293 cells using RANK antibody at 2 ug/ml.



Flow Cytometry: RANK Antibody (9A725) TA336373 - Intracellular flow cytometry analysis of RANK in 10^6 RAW cells using 2 ug of RANK antibody. Shaded histogram represents RAW cells without antibody; green represents isotype control antibody red represents