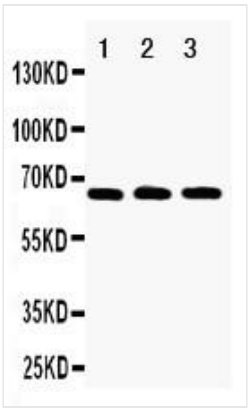
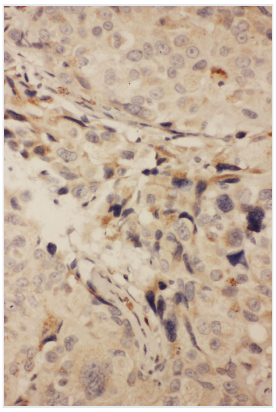
RANK Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RANK, Polyclonal Antibody
Full Product Name	RANK (Osteoclast differentiation factor receptor) (AP)
Product Gene Name	anti-RANK antibody
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. Labeled with Alkaline Phosphatase (AP).
Purity/Purification	Purified by Immunoaffinity chromatography.
Specificity	Recognizes human RANK. No crossreactivity with other proteins.
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for 12 months after receipt. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
Molecular Weight	64,552 Da
OMIM	174810
3D Structure	ModBase 3D Structure for Q9Y6Q6
Immunogen	A synthetic peptide corresponding to a sequence at the N-terminal of human RANK.
Conjugate	AP
Note	Preservative Free
Product Categories/Family for anti-RANK antibody	Antibodies; RANK
Applications Tested/Suitable for anti-RANK antibody	Immunohistochemistry (IHC) Paraffin, Western Blot (WB)
Application Notes for anti-RANK antibody	WB: 2.5ng/lane under non-reducing and reducing conditions. Applications are based on unconjugated antibody.
Related Product Information for anti-RANK antibody	MBS6404622 is an antibody targeting RANK. Also known as RANK (Osteoclast differentiation factor receptor) (AP). Reactive in Human. Host: Rabbit.
Product References and Citations for anti-RANK antibody	1. Suda T, Takahashi N, Udagawa N, Jimi E, Gillespie MT, Martin TJ (1999). "Modulation of osteoclast differentiation and function by the new members of the tumor necrosis factor receptor and ligand families". Endocr. Rev. 20 (3): 345-57. 2. Wong BR, Josien R, Choi Y (1999). "TRANCE is a TNF family member that regulates dendritic cell and osteoclast function". J. Leukoc. Biol. 65 (6): 715-24. 3. Theill LE, Boyle WJ, Penninger JM (2002). "RANK-L and RANK: T cells, bone loss, and mammalian evolution". Annu. Rev. Immunol. 20: 795-823.
Other Notes	Small volumes of anti-RANK antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



Western Blot (WB) of anti-RANK antibody
Western Blot using 145118 Lane 1: Recombinant Human RANK Protein 10ng Lane 2: Recombinant Human RANK Protein 5ng Lane 3: Recombinant Human RANK Protein 2.5ng



Immunohistochemistry (IHC) of anti-RANK antibody
Immunohistochemistry in paraffin Human Mammary Cancer Tissue using 145118.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for RANK. It may not necessarily be applicable to this product.

NCBI GI #	401015111
NCBI GeneID	8792
NCBI Accession #	NP_001257878.1
UniProt Primary Accession #	Q9Y6Q6
UniProt Secondary Accession #	Q59EP9; I4EC36; I4EC38; I4EC39; I7JE63; N0GVH0
UniProt Related Accession #	Q9Y6Q6
GenBank Nucleotide #	NM_001270949.1
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 11A isoform 2
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily member 11a
NCBI Official Symbol	TNFRSF11A
NCBI Official Synonym Symbols	FEO; OFE; ODFR; OSTS; PDB2; RANK; CD265; OPTB7; TRANCER; LOH18CR1
UniProt Protein Name	Tumor necrosis factor receptor superfamily member 11A
UniProt Synonym Protein Names	Osteoclast differentiation factor receptor; ODFR; Receptor activator of NF-KB; CD_antigen: CD265
Protein Family	Rabankyrin
UniProt Gene Name	TNFRSF11A
UniProt Synonym Gene Names	RANK; ODFR
UniProt Entry Name	TNR11_HUMAN
NCBI Protein Information	tumor necrosis factor receptor superfamily member 11A

UniProt Comments for RANK	TNFRSF11A: Receptor for TNFSF11/RANKL/TRANCE/OPGL; essential for RANKL-mediated osteoclastogenesis. Involved in the regulation of interactions between T-cells and dendritic cells. Binds to the clefts between the subunits of the TNFSF11 ligand trimer to form a heterohexamer. Interacts with TRAF1, TRAF2, TRAF3, TRAF5 and TRAF6. Interacts (via cytoplasmic domain) with GAB2. Ubiquitous expression with high levels in skeletal muscle, thymus, liver, colon, small intestine and adrenal gland. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 18q22.1 Cellular Component: external side of plasma membrane; integral to plasma membrane; plasma membrane Molecular Function: cytokine binding; protein binding; receptor activity; transmembrane receptor activity; tumor necrosis factor receptor activity Biological Process: activation of NF-kappaB transcription factor; adaptive immune response; cell-cell signaling; circadian thermoregulation; inflammatory response; osteoclast differentiation; positive regulation of cell proliferation; positive regulation of JNK activity; positive regulation of transcription factor activity; regulation of apoptosis; response to cytokine stimulus; response to lipopolysaccharide; signal transduction; tumor necrosis factor-mediated signaling pathway Disease: Familial Expansile Osteolysis; Osteopetrosis, Autosomal Recessive 7; Paget Disease Of Bone
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