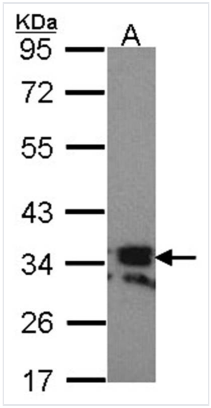
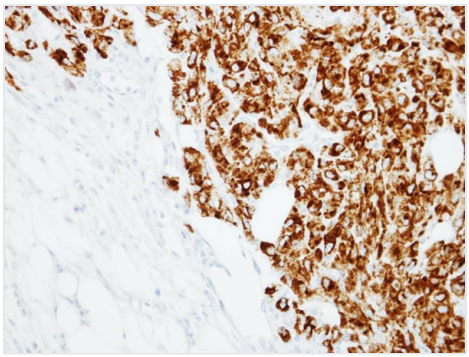
RANKL Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	RANKL, Polyclonal Antibody
Full Product Name	RANKL (CD254) antibody
Product Gene Name	anti-RANKL antibody
Product Synonym Names	ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TRANCE; hRANKL2
Clonality	Polyclonal
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied in 0.1M Tris-buffered saline with 10% Glycerol (pH7.0). 0.01% Thimerosal was added as a preservative.
Purity/Purification	Purified by antigen-affinity chromatography.
Preparation and Storage	Store at -20 degree C for long term preservation (recommended). Store at 4 degree C for short term use.
Molecular Weight	30,523 Da
OMIM	259710
Immunogen Type	Peptide
Immunogen Description	Synthetic peptide contain a sequence corresponding to a region within amino acids 253 and 317 of RANKL (CD254)
Target Name	RANKL(CD254)
Product Categories/Family for anti-RANKL antibody	Total protein Ab
Applications Tested/Suitable for anti-RANKL antibody	Western Blot (WB), Immunohistochemistry (IHC)
Application Notes for anti-RANKL antibody	Western blotting: 1:500-1:3000 Immunohistochemistry: 1:100-1:250
Related Product Information for anti-RANKL antibody	This gene encodes a member of the tumor necrosis factor (TNF) cytokine family which is a ligand for osteoprotegerin and functions as a key factor for osteoclast differentiation and activation. This protein was shown to be a dentritic cell survival factor and is involved in the regulation of T cell-dependent immune response. T cell activation was reported to induce expression of this gene and lead to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiapoptotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis factor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regulation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. Two alternatively spliced transcript variants have been found. [provided by RefSeq]
Other Notes	Small volumes of anti-RANKL 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.
Searchable Terms for RANKL purchase	MBS9414481 is an antibody targeting RANKL. Also known as RANKL (CD254) antibody. Reactive in Human. Host: Rabbit.



Testing Data of anti-RANKL antibody
Sample (30 ug of whole cell lysate) A: Hela 10% SDS PAGE RANKL (CD254) antibody diluted at 1: 1000



Immunohistochemistry (IHC) of anti-RANKL antibody
Immunohistochemical analysis of paraffin-embedded U87 xenograft, using RANKL antibody at 1: 100 dilution.

ADDITIONAL DETAILS

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

NCBI GI #	4507595
NCBI GeneID	8600
NCBI Accession #	NP_003692
UniProt Secondary Accession #	O14723; Q96Q17; Q9P2Q3
UniProt Related Accession #	O14788
GenBank Nucleotide #	NM_003701.3
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 11 isoform 1
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 11
NCBI Official Symbol	TNFSF11
NCBI Official Synonym Symbols	ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TRANCE; hRANKL2
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 11
UniProt Synonym Protein Names	Osteoclast differentiation factor; ODF
Protein Family	Tumor necrosis factor ligand superfamily
UniProt Gene Name	TNFSF11
UniProt Synonym Gene Names	OPGL; RANKL; TRANCE; ODF; OPGL; RANKL; TRANCE
UniProt Entry Name	TNF11_HUMAN
NCBI Protein Information	tumor necrosis factor ligand superfamily member 11

UniProt Comments for RANKL	TNFSF11: Cytokine that binds to TNFRSF11B/OPG and to TNFRSF11A/RANK. Osteoclast differentiation and activation factor. Augments the ability of dendritic cells to stimulate naive T-cell proliferation. 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. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy. Homotrimer. Up-regulated by T-cell receptor stimulation. Highest in the peripheral lymph nodes, weak in spleen, peripheral blood Leukocytes, bone marrow, heart, placenta, skeletal muscle, stomach and thyroid. Belongs to the tumor necrosis factor family. 3 isoforms of the human protein are produced by alternative splicing. Protein type: Membrane protein, integral Chromosomal Location of Human Ortholog: 13q14 Cellular Component: extracellular space; integral to plasma membrane; cytoplasm; extracellular region Molecular Function: cytokine activity; tumor necrosis factor receptor superfamily binding; tumor necrosis factor receptor binding Biological Process: ossification; positive regulation of I-kappaB kinase/NF-kappaB cascade; positive regulation of osteoclast differentiation; cytokine and chemokine mediated signaling pathway; mammary gland epithelial cell proliferation; osteoclast differentiation; activation of JNK activity; positive regulation of homotypic cell-cell adhesion; activation of NF-kappaB transcription factor; positive regulation of corticotropin-releasing hormone secretion; calcium ion homeostasis; positive regulation of MAP kinase activity; monocyte chemotaxis; positive regulation of protein kinase B signaling cascade; organ morphogenesis; tumor necrosis factor-mediated signaling pathway; positive regulation of bone resorption; positive regulation of transcription from RNA polymerase II promoter; positive regulation of transcription factor activity; immune response; positive regulation of T cell activation; protein homooligomerization; bone resorption Disease: Osteopetrosis, Autosomal Recessive 2
Research Articles on RANKL	**1.** Data suggest that the T cell control region (hTCCR) region contains a cell-selective set of enhancers that plays an integral role in the transcriptional regulation of the Rankl gene Tnfsf11 in T cells.
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