TNFSF11 Blocking Peptide

PRODUCT OVERVIEW

Product Name	TNFSF11, Blocking Peptide
Full Product Name	TNFSF11 Blocking Peptide
Product Gene Name	TNFSF11 blocking peptide
Product Synonym Names	TNFSF11; tumor necrosis factor (ligand) superfamily, member 11 ; ODF; OPGL; RANKL; TRANCE; hRANKL2; sOdf; TNF-related activation-induced cytokine; osteoclast differentiation factor; osteoprotegerin ligand; receptor activator of nuclear factor kappa B ligand tumor necrosis factor ligand superfamily, member 11
Species Reactivity	Human, Mouse
Form/Format	100ug of Lyophilised peptide, formulation 5pmol/uL in 5% (v/v) acetonitrile/H2O.
Preparation and Storage	Store at -20 degree C.
Antibody/Peptide Pairs	TNFSF11 peptide (MBS428875) is used for blocking the activity of TNFSF11 antibody (MBS423837)
OMIM	259710
Peptide Sequence + C	C-DLAKRSKLEAQP
Reconstitution	Reconstitute pellet in distilled water where required. For Blocking studies, reconstitute pellet in 200ul distilled water to obtain a 0.5mg/ml peptide solution.
ISO Certification	Manufactured in an ISO 9001:2008 Certified Laboratory.
Related Product Information for TNFSF11 blocking peptide	MBS428875 is a blocking peptide targeting TNFSF11. Reactive in Human, Mouse.
Other Notes	Small volumes of TNFSF11 blocking peptide 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TNFSF11. It may not necessarily be applicable to this product.

NCBI GI #	4507595
NCBI GeneID	8600
NCBI Accession #	NP_003692.1
NCBI Related Accession #	NP_143026.1
UniProt Primary Accession #	O14788
UniProt Related Accession #	O14788
GenBank Nucleotide #	NP_003692.1
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 11 isoform 1
NCBI Official Synonym Full Names	TNF superfamily member 11
NCBI Official Symbol	TNFSF11
NCBI Official Synonym Symbols	ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TNLG6B; TRANCE; hRANKL2

UniProt Protein Name	Tumor necrosis factor ligand superfamily member 11
UniProt Synonym Protein Names	Osteoclast differentiation factor; ODF; Osteoprotegerin ligand; OPGL; Receptor activator of nuclear factor kappa-B ligand; RANKL; TNF-related activation-induced cytokine
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
NCBI Summary for TNFSF11	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, Jul 2008]
UniProt Comments for TNFSF11	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; positive regulation of corticotropin-releasing hormone secretion; activation of NF-kappaB transcription factor; calcium ion homeostasis; positive regulation of protein kinase B signaling cascade; positive regulation of MAP kinase activity; monocyte chemotaxis; organ morphogenesis; tumor necrosis factor-mediated signaling pathway; positive regulation of bone resorption; positive regulation of transcription factor activity; immune response; positive regulation of transcription from RNA polymerase II promoter; positive regulation of T cell activation; protein homooligomerization; bone resorption Disease: Osteopetrosis, Autosomal Recessive 2
Research Articles on TNFSF11	**1.** Ankylosing spondylitis patients with syndesmophyte formation had significantly lower levels of soluble RANKL levels than those without syndesmophyte formation. The data suggested a role for RANKL in AS susceptibility and severity.
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