TNFSF11 rabbit monoclonal antibody

Catalog # H00008600-K Size 100 ug x up to 3

Specification

Product Description	Rabbit monoclonal antibody raised against a human TNFSF11 peptide using ARM Technology.
Immunogen	A synthetic peptide of human TNFSF11 is used for rabbit immunization. Customer or Abnova will decide on the preferred peptide sequence.
Host	Rabbit
Library Construction	Non-fusion antibody library from rabbit spleen (ARM Technology).
Expression	Overexpression vector and transfection into 293H cell line.
Reactivity	Human
Purification	Protein A
Isotype	IgG
Quality Control Testing	Antibody reactive against human TNFSF11 peptide by ELISA and mammalian transfected lysate by Western Blot.
Storage Buffer	In 1x PBS, pH 7.4
Storage Instruction	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Deliverable	Up to three rabbit IgG clones of 100 ug each will be delivered to customer.
Note	1. Customer may provide cell or tissue lysate for antibody screening. 2. Rabbit monoclonal antibody generated by ARM technology is amenable to antibody engineering in cluding $F(ab)_2$, IgG, scFv and different Fc and non-Fc conjugates per customer request.

Applications

- Western Blot (Transfected lysate)

  Protocol Download

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- ELISA

Gene Info — TNFSF11

Entrez GeneID	8600
GeneBank Accession#	TNFSF11
Gene Name	TNFSF11
Gene Alias	CD254, ODF, OPGL, OPTB2, RANKL, TRANCE, hRANKL2, sOdf
Gene Description	tumor necrosis factor (ligand) superfamily, member 11
Omim ID	259710 602642
Gene Ontology	Hyperlink
Gene Summary	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-de pendent immune response. T cell activation was reported to induce expression of this gene and le ad to an increase of osteoclastogenesis and bone loss. This protein was shown to activate antiap optotic kinase AKT/PKB through a signaling complex involving SRC kinase and tumor necrosis fa ctor receptor-associated factor (TRAF) 6, which indicated this protein may have a role in the regul ation of cell apoptosis. Targeted disruption of the related gene in mice led to severe osteopetrosi s 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 altern atively spliced transcript variants have been found. [provided by RefSeq
Other Designations	OTTHUMP00000178585|TNF-related activation-induced cytokine|osteoclast differentiation factor| osteoprotegerin ligand|receptor activator of nuclear factor kappa B ligand|tumor necrosis factor li gand superfamily, member 11

Pathway

- Cytokine-cytokine receptor interaction

Disease

- Acute Disease
- Alveolar Bone Loss

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- Alzheimer disease
- Arthritis
- Bone Diseases
- Bone Resorption
- Calcinosis
- Cardiovascular Diseases
- Diabetes Complications
- Diabetes Mellitus
- Disease Progression
- Edema
- Fractures
- Genetic Predisposition to Disease
- Lupus Erythematosus
- Metabolic Syndrome X
- Neoplasms
- Obesity
- Osteoporosis
- Periodontitis
- Prosthesis Failure
- Scoliosis
- Spinal Fractures
- Tobacco Use Disorder

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