

Recombinant Human Sperm Adhesion Molecule 1 (PH-20 Hyaluronidase, Zona Pellucida Binding), His-Fc-Tagged

Cat. No. TNFSF11-313H **Lot. No.** (See product label)

SPECIFICATION

Product Overview

The monoclonal antibody to RANKL is a human IgG2 monoclonal antibody, have affinity and specificity with human RANKL (receptor activator of nuclear factor kappa-B ligand). 147 kDa Molecular weight, is genetically engineered mammalian (Chinese hamster ovary) cell production.

Species

Human

Source

Human

Description

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 dendritic 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.

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Form	Sterilized PBS, pH7.4
Purity	> 95%;
Endotoxin	<1.0EU/10mg(LAL gel)
Stability	4μ: 6months. -20μ: 1 year, avoiding repeated freezing and thawing.
Predicted N terminal	H-strand: EVQLLES GGG; L-strand: EIVLTQSPGT
Molecular Mass	OPGL monoclonal antibody consists of 1326 Amino acids, Molecular Mass is 147KDa.
Storage	4μ for 6 months; -20 μ for 1 year, Avoiding repeated freezing and thawing.

GENE INFORMATION

Gene Name	TNFSF11 tumor necrosis factor (ligand) superfamily, member 11 [Homo sapiens]
Official Symbol	TNFSF11
Synonyms	TNFSF11; tumor necrosis factor (ligand) superfamily, member 11; ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TRANCE; hRANKL2; tumor necrosis factor ligand superfamily, member 11; OTTHUMP00000178585; osteoprotegerin ligand; osteoclast differentiation factor; TNF-related activation-induced cytokine; receptor activator of nuclear factor kappa B ligand; Tumor necrosis factor ligand superfamily member 11, membrane form; Tumor necrosis factor ligand superfamily member 11, soluble form; CD254 antigen; Osteoprotegerin ligand
Gene ID	8600

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mRNA Refseq	NM_003701
Protein Refseq	NP_003692
MIM	602642
UniProt ID	O14788
Chromosome Location	13q14
Pathway	Cytokine-cytokine receptor interaction
Function	cytokine activity; protein binding; receptor activity; tumor necrosis factor receptor binding
PDB rendering based on 1s55.	