

Recombinant Anti-Human RANKL Monoclonal Antibody

Cat. No. CABT-P1009H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant monoclonal antibody to Human RANKL.
Species	Human
Antigen Description	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. Maybe an important regulator of interactions between T-cells and dendritic cells and may play a role in the regulation of the T-cell-dependent immuneresponse. May also play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy.
Protein Costruction	DNA sequences coding OPGL antibody heavy and light chains cotransfected to host cell were expressed with a human Igk signal in light chain.
Isotype	IgG2
Formulation	Normally 1mg/mL-His, 1mg/ml Sucrose and 0.04 mg/ml Tween-80 are added, pH 6.0. Please contact us for any concerns or special requirements.
Purity Detail	>95% as determined by SDS-PAGE and HPLC
Expression Host	Chinese Hamster Ovary (CHO cell)
Endotoxin	<1.0 EU per 10 mg protein as determined by the LAL method

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Molecular Mass	The secreted recombinant Monoclonal antibody to human RANKL comprises 1326 amino acids. As a result of glycosylation, it has molecular mass of 150kDa in SDS-PAGE under non-reducing conditions.
Predicted N terminal	Hchain: EVQLLES GGG; Lchain: EIVLTQSPGT
Stability	Samples are stable for up to twelve months from date of receipt at -20°C and are stable for six months at 4°C.
Storage	Store it under sterile conditions at -70°C upon receiving. Recommend to pack the protein into smaller quantities for optimal storage.
Background	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.

GENE INFORMATION

Gene Name	TNFSF11 tumor necrosis factor (ligand) superfamily, member 11 [Homo sapiens]
Official Symbol	TNFSF11
Synonyms	ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TRANCE; hRANKL2 ; Osteoclast differentiation factor antibody; Osteoprotegerin ligand antibody; Receptor activator of nuclear factor kappa B ligand; Receptor activator of nuclear factor kappa-B ligand; sOdf antibody; SOFA antibody; TNF related activation induced cytokine antibody; TNF11_HUMAN; TNFSF 11 antibody; TRANCE; Tumor necrosis factor (ligand) superfamily member 11; Tumor necrosis factor ligand superfamily member 11; soluble form antibody interleukin-12 subunit beta; interleukin-12 subunit beta

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Gene ID	8600
mRNA Refseq	NM_003701.3
Protein Refseq	NP_003692.1
MIM	602642
UniProt ID	Q5T9Y4
Chromosome Location	13q14
Pathway	Cytokine-cytokine receptor interaction; Cytokine-cytokinereceptor interaction; IL6-mediated signaling events; Osteoblast Signaling; Osteoclastdifferentiation; Rheumatoid arthritis
Function	cytokine activity; receptoractivity; tumor necrosis factor receptor binding; tumor necrosis factorreceptor superfamily binding

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