

## Active Recombinant Human TNFSF11 protein, mFc-tagged

Cat. No. TNFSF11-322H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human TNFSF11 protein(AAC51762.1) (Gly63-Asp244), fused with mFc tag, was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	Gly63-Asp244
<b>Form</b>	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	1. Measured by its binding ability in a functional ELISA. Immobilized Human TNFRSF11B His at 2 µg/ml (100 µl/well) can bind Human RANKL mFc, the EC50 of Human RANKL mFc is 15-80 ng/mL. 2. The bioactivity of hRANKL was determined by measuring the ability of hRANKL to induce TRAP activity in Raw 264.7 cells. The ED50 for this effect is typically 15-45 ng/mL.
<b>Molecular Mass</b>	The recombinant human TNFSF11/mFc comprises 418 amino acids and has a predicted molecular mass of 47.1 kDa. The apparent molecular mass of the monomer is approximately 50-60 kDa in SDS-PAGE under reducing conditions due to glycosylation.

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<b>Endotoxin</b>	< 1.0 EU per µg of the protein as determined by the LAL method
<b>Purity</b>	> 90 % as determined by SDS-PAGE
<b>Storage</b>	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

## GENE INFORMATION

<b>Gene Name</b>	TNFSF11 tumor necrosis factor (ligand) superfamily, member 11 [ Homo sapiens ]
<b>Official Symbol</b>	TNFSF11
<b>Synonyms</b>	TNFSF11; tumor necrosis factor (ligand) superfamily, member 11; tumor necrosis factor ligand superfamily member 11; CD254; ODF; OPGL; RANKL; TRANCE; osteoprotegerin ligand; osteoclast differentiation factor; TNF-related activation-induced cytokine; receptor activator of nuclear factor kappa B ligand; receptor activator of nuclear factor kappa-B ligand; sOdf; OPTB2; hRANKL2;
<b>Gene ID</b>	8600
<b>mRNA Refseq</b>	NM_003701
<b>Protein Refseq</b>	NP_003692
<b>MIM</b>	602642

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UniProt ID

O14788

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