Datasheet for ABIN6973285

RANKL Protein (AA 64-245) (His tag,AVI tag,Biotin)

3 Images

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Overview

Quantity:	200 µg
Target:	RANKL (TNFSF11)
Protein Characteristics:	AA 64-245
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This RANKL protein is labelled with His tag,AVI tag,Biotin.

Product Details

Sequence:	AA 64-245
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	Human TOP2A / TOP2 Protein, Tag Free
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	RANKL (TNFSF11)
Alternative Name:	TNFSF11 (TNFSF11 Products)

Target Details

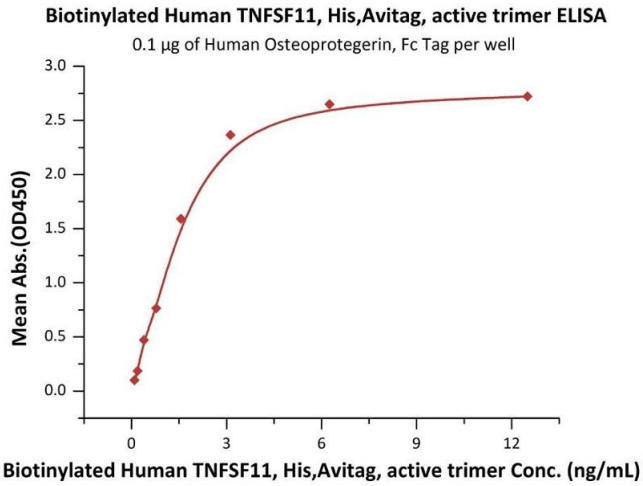
Background:	Receptor activator of nuclear factor kappa-B ligand (RANKL), also known as tumor necrosis factor ligand superfamily member 11 (TNFSF11), TNF-related activation-induced cytokine (TRANCE), osteoprotegerin ligand (OPGL), and osteoclast differentiation factor (ODF), is known as a type II membrane protein and is a member of the tumor necrosis factor (TNF) superfamily. RANKL, through its ability to stimulate osteoclast formation and activity, is a critical mediator of bone resorption and overall bone density. Some findings also suggestion some cancer cells, particularly prostate cancer cells, can activate an increase in bone remodeling and ultimately increase overall bone production.[17] This increase in bone remodeling and bone production increases the overall growth of bone metastasizes. The overall control of bone remodeling is regulated by the binding of RANKL with its receptor or its decoy receptor, respectively, RANK and OPG.
Molecular Weight:	24.1 kDa
Pathways:	NF-kappaB Signaling

Application Details

Application Notes:	MALS verified
Comment:	Ready-to-use Avitag™ biotinylated protein: The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA. This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.
Restrictions:	For Research Use only

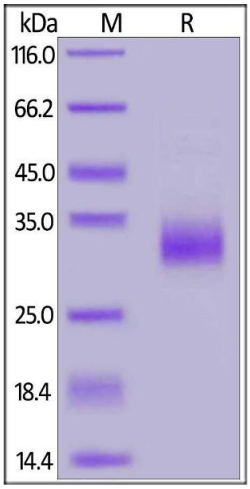
Handling

Format:	Lyophilized
Buffer:	PBS, pH 7.4
Storage:	-20 °C



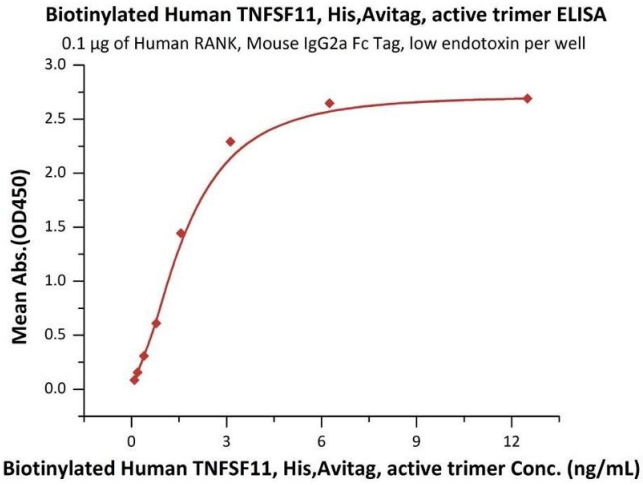
ELISA

Image 1. Immobilized Human Osteoprotegerin, Fc Tag (ABIN2181850,ABIN2181849) at 1 μg/mL (100 μL/well) can bind Biotinylated Human TNFSF11, His,Avitag, active trimer (ABIN6973285) with a linear range of 0.1-3 ng/mL (Routinely tested).



SDS-PAGE

Image 2. Biotinylated Human TNFSF11, His,Avitag, active trimer(MALS verified) on under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90 % .



ELISA

Image 3. Measured by its binding ability in a functional ELISA. Immobilized Human RANK, Mouse IgG2a Fc Tag, low endotoxin (ABIN5954944,ABIN6253593) at 1 μg/mL (100 μL/well) can bind Biotinylated Human TNFSF11, His,Avitag, active trimer (ABIN6973285) with a linear range of 0.1-3 ng/mL (QC tested).