

RANK/TNFRSF11A Active Protein | TNFRSF11A active protein

RANK/TNFRSF11A Protein, Human, Recombinant (hFc Tag)

CATALOG #
AAA258044

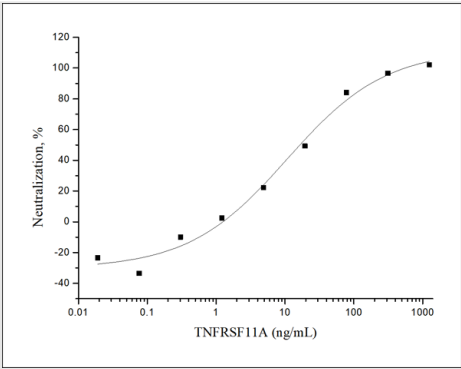
HOST
HEK293 Cells

PRODUCT SYNONYMS

RANK/TNFRSF11A; RANK/TNFRSF11A Protein; Human; Recombinant (hFc Tag); Human TNFRSF11A Protein (Fc Tag); CD265 Protein; FEO Protein; LOH18CR1 Protein; ODFR Protein; OFE Protein; OPTB7 Protein; OST5 Protein; PDB2 Protein; RANK Protein; TNFRSF11A Protein; TRANCER Protein; tumor necrosis factor receptor superfamily member 11a; TNFRSF11A active protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>90% as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH7.4. Normally 5%-8% trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Please refer to the specific buffer information in the hard copy of CoA.
Sequence	Met1-Pro21 2
Species	Human
Activity	Measured by its ability to inhibit TRANCE-induced osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells. The ED50 for this effect is 3-16ng/mL in the presence of 5ng/mL of TRANCE.
Endotoxin	<1.0EU per ug of the protein as determined by the LAL method
Predicted N Terminal	Ile 30
Tag	C-human IgG1-Fc
Protein Construction	A DNA sequence encoding the human TNFRSF11A (NP_001257879.1)(Met1-Pro212) was expressed with the Fc region of human IgG1 at the C-terminus.
Reconstitution	A hardcopy of COA with reconstitution instruction is sent along with the products. Please refer to it for detailed information.
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -20 degree C to -80 degree C. Store it under sterile conditions at -20 degree C to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice.



SDS-PAGE

Application Data

Measured by its ability to inhibit TRANCE-induced osteoclast differentiation of RAW 264.7 mouse monocyte/macrophage cells. The ED50 for this effect is 3-16ng/mL in the presence of 5 ng/mL of TRANCE.

ADDITIONAL INFORMATION

Related Product Information for TNFRSF11A active protein	Background: TNFRSF11A is a member of the TNF-receptor superfamily. In mouse, it is also known as CD265. TNFRSF11A contains 4 TNFR-Cys repeats and is widely expressed with high levels in skeletal muscle, thymus, liver, colon, small intestine and adrenal gland. It is an essential mediator for osteoclast and lymph node development. TNFRSF11A and its ligand are important regulators of the interaction between T cells and dendritic cells. It can interact with various TRAF family proteins, through which this receptor induces the activation of NF-kappa B and MAPK8/JNK. Defects in TNFRSF11A can cause familial expansile osteolysis (FEO). FEO is a rare autosomal dominant bone disorder characterized by focal areas of increased bone remodeling. Defects in TNFRSF11A also can cause Paget disease of bone type 2 (PDB2). PDB2 is a bone-remodeling disorder with clinical similarities to FEO. Defects in TNFRSF11A are the cause of osteopetrosis autosomal recessive type 7 which characterized by abnormally dense bone, due to defective resorption of immature bone.
References	Darnay B G, et al. (1998) Characterization of the intracellular domain of receptor activator of NF-kappaB (RANK). Interaction with tumor necrosis factor receptor-associated factors and activation of NF-kappab and c-Jun N-terminal kinase. J Biol Chem. 273(32):20551-5.Darnay B G, et al. (1999) Activation of NF-kappaB by RANK requires tumor necrosis factor receptor-associated factor (TRAF) 6 and NF-kappaB-inducing kinase. Identification of a novel TRAF6 interaction motif. J Biol Chem. 274(12):7724-31.Galibert L, et al. (1998) The involvement of multiple tumor necrosis factor receptor (TNFR)-associated factors in the signaling mechanisms of receptor activator of NF-kappaB, a member of the TNFR superfamily. J Biol Chem. 273(51):34120-7.

NCBI AND UNIPROT INFORMATION

NCBI GI #	401015113
NCBI GeneID	8792
NCBI Accession #	NP_001257879.1
NCBI GenBank Nucleotide #	NM_001270950.1
UniProt Accession #	Q9Y6Q6; I4EC39
Molecular Weight	66,034 Da
NCBI Official Full Name	tumor necrosis factor receptor superfamily member 11A isoform 3
NCBI Official Synonym Full Names	tumor necrosis factor receptor superfamily, member 11a, NFkB activator
NCBI Official Symbol	TNFRSF11A
NCBI Official Synonym Symbols	FEO; OFE; ODFR; OSTS; PDB2; RANK; CD265; OPTB7; TRANCER; LOH18CR1
NCBI Protein Information	tumor necrosis factor receptor superfamily member 11A; receptor activator of NF-KB; osteoclast differentiation factor receptor; receptor activator of nuclear factor-kappa B; loss of heterozygosity, 18, chromosomal region 1

UniProt Protein Name	Tumor necrosis factor receptor superfamily member 11A
UniProt Gene Name	TNFRSF11A
UniProt Synonym Gene Names	RANK; ODFR
UniProt Entry Name	TNR11_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/hek293-active-protein/rank-tnfrsf11a/258044>