

TRANCE/RANK L/TNFSF11 active protein

Recombinant TRANCE/RANK L/TNFSF11

CATALOG # AAA48324	HOST E Coli	APPLICATIONS SDS-Page
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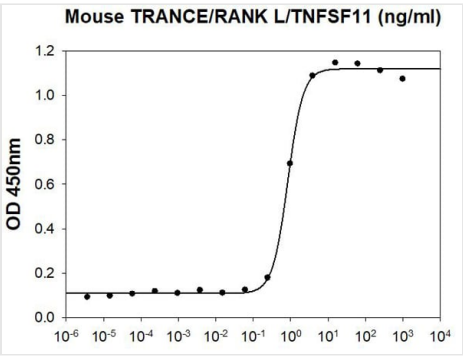
PRODUCT SYNONYMS

TRANCE/RANK L/TNFSF11; Recombinant TRANCE/RANK L/TNFSF11; CD254; hRANKL2; ODF; OPGL; OPTB2; Osteoclast differentiation factor; Osteoprotegerin ligand; RANKL; Receptor activator of nuclear factor kappa B ligand; Receptor activator of nuclear factor kappa-B ligand; sOdf; TNF related activation induced cytokine; TNF-related activation-induced cytokine; TNF11_HUMAN; TNFSF 11; Tnfsf11; TRANCE; Tumor necrosis factor (ligand) superfamily member 11; Tumor necrosis factor ligand superfamily member 11; soluble form; TRANCE/RANK L/TNFSF11 active protein

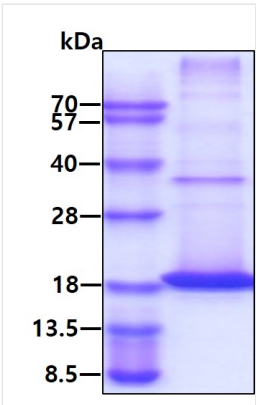
PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS - PAGE
Form/Format	Liquid. In Tris-Hcl buffer(pH8.5) containing 0.1M NaCl
Concentration	1mg/ml (determined by Bradford assay) (varies by lot)
Sequence Positions	158-316aa
Sequence	MKPEAQPFah LTINAASIPS GSHKVTLSSW YHDRGWAKIS NMTLSNGKLR VNQDGFYYLY ANICFRHHET SGSVPTDYLQ LMVYVVKTSI KIPSSHNLmk GGSTKNWSGN SEHFYSINV GGFFKLrage EISIQVSNPS LLDPDQDATY FGAFKVQDID
Sequence Length	316
Applicable Applications for TRANCE/RANK L/TNFSF11 active protein	Bioactivity, SDS-PAGE
Tag	Non-Tagged
Biological Activity	Measured in a osteoclast differentiation assay using RAW 264.7 mouse monocyte/macrophage cells. The ED50 range <= 2 ng/ml.
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity
Mouse TRANCE/RANK L/TNFSF11 stimulates osteoclast differentiation of the RAW 264.7 mouse monocyte/macrophage cells. The ED50 range



SDS-PAGE
3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

ADDITIONAL INFORMATION

Related Product Information for TRANCE/RANK L/TNFSF11 active protein	Tnfsf11, also known as tumor necrosis factor ligand superfamily member 11, is 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. Tnfsf11 also has a function in the immune system, where it is expressed by T helper cells and is thought to be involved in dendritic cell maturation. Tnfsf11 is important in bone metabolism. This natural and necessary surface-bound molecule (also known as CD254) found on osteoblasts serves to activate osteoclasts, which are the cells involved in bone resorption. Recombinant Mouse Tnfsf11 protein was expressed in E. coli and purified by using conventional chromatography.
Product Categories/Family for TRANCE/RANK L/TNFSF11 active protein	Hormones & Cytokines
References	Lam J., et al. (2001). J. Clin. Invest. 108(7):971-9.;;Ito S., et al. (2002). J. Biol. Chem. 277(8):6631-6.

NCBI AND UNIPROT INFORMATION

NCBI GI #	114842415
NCBI GenID	21943
NCBI Accession #	NP_035743.2
NCBI GenBank Nucleotide #	NP_035743.2
UniProt Accession #	O35235
Molecular Weight	17.9 kDa (160aa), confirmed by MALDI-TOF
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 11
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 11
NCBI Official Symbol	Tnfsf11
NCBI Official Synonym Symbols	ODF; OPGL; RANKL; Ly109I; Trance
NCBI Protein Information	tumor necrosis factor ligand superfamily member 11
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 11
UniProt Gene Name	Tnfsf11
UniProt Synonym Gene Names	Opgl; Rankl; Trance; ODF; OPGL; RANKL; TRANCE
UniProt Entry Name	TNF11_MOUSE

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://stage.aaabiotech.com/e-coli-active-protein/trance-rank-l-tnfsf11/48324>