

RANKL active protein

Human RANKL Protein (ECD, rFc Tag)

CATALOG #
AAA258585

HOST
HEK293 Cells

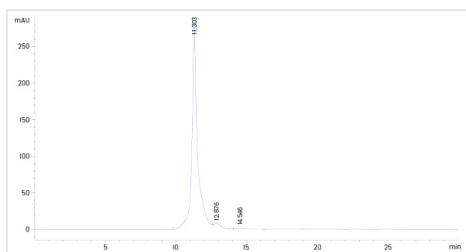
PRODUCT SYNONYMS

RANKL; Human RANKL Protein (ECD, rFc Tag); CD254 Protein; Human; hRANKL2 Protein; ODF Protein; OPGL Protein; OPTB2 Protein; RANKL Protein; sOdf Protein; TNFSF11 Protein; TRANCE Protein; RANKL active protein

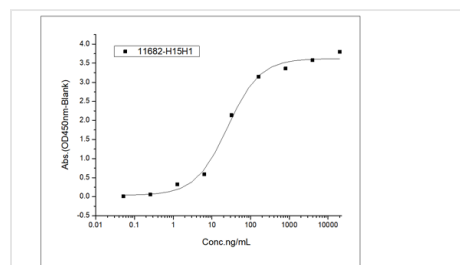
PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	>95% as determined by SDS-PAGE. >90% as determined by SEC-HPLC.
Form/Format	Lyophilized from sterile PBS, pH 7.4.
Sequence	Gly64-Asp2 45
Species	Human
Endotoxin	<1.0EU per ug protein as determined by the LAL method.
Tag	N-rabbit IgG-Fc
Predicted N Terminal	Ser
Protein Construction	A DNA sequence encoding the human TNFSF11 (AAC51762.1)(Gly64-Asp245) was expressed with the Fc region of rabbit IgG at the N-terminus.
Activity	1.Immobilized Recombinant Human Osteoprotegerin/TNFRSF11B Protein (His Tag) at 2 ug/mL (100 uL/well) can bind Recombinant Human RANKL Protein (ECD, rFc Tag), the EC50 is 15-45 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 1.5-7.5 ng/mL.
Preparation and Storage	Store it under sterile conditions at -20 to -80 degree C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

IMAGES

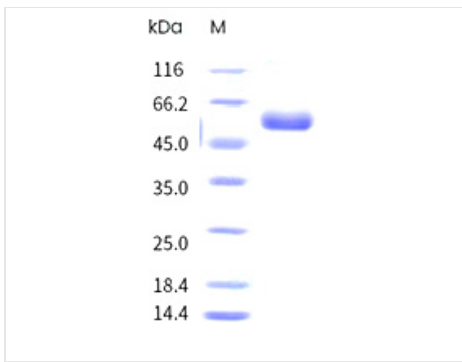


Application Data



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Immobilized Recombinant Human Osteoprotegerin/TNFRSF11B Protein (His Tag)(Cat: 10271-H08H) at 2 ug/mL (100 uL/well) can bind Recombinant Human RANKL Protein (ECD, rFc Tag)(Cat: AAA258585), the EC50 is 15-45 ng/mL.



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ADDITIONAL INFORMATION

Related Product Information for RANKL active protein	Tumor necrosis factor ligand superfamily member 11, also known as Receptor activator of nuclear factor kappa-B ligand, Osteoprotegerin ligand, TNFSF11, RANKL, TRANCE, OPGL and CD254, is a single-pass type II membrane protein that belongs to the tumor necrosis factor family. The receptor activator of nuclear factor-kappaB ligand (RANKL), its cognate receptor RANK, and its natural decoy receptor osteoprotegerin have been identified as the final effector molecules of osteoclastic bone resorption. RANK and RANKL are key regulators of bone remodeling and regulate T cell/dendritic cell communications, and lymph node formation. Moreover, RANKL and RANK are expressed in mammary gland epithelial cells and control the development of a lactating mammary gland during pregnancy. Genetically, RANKL and RANK are essential for the development and activation of osteoclasts and bone loss in response to virtually all triggers tested. Inhibition of RANKL function via the natural decoy receptor osteoprotegerin (OPG, TNFRSF11B) prevents bone loss in postmenopausal osteoporosis and cancer metastases. Importantly, RANKL appears to be the pathogenetic principle that causes bone and cartilage destruction in arthritis. RANK-RANKL signaling not only activates a variety of downstream signaling pathways required for osteoclast development, but crosstalk with other signaling pathways also fine-tunes bone homeostasis both in normal physiology and disease. In addition, RANKL and RANK have essential roles in lymph node formation, establishment of the thymic microenvironment, and development of a lactating mammary gland during pregnancy.
Product Categories/Family for RANKL active protein	targeted therapy; Ligand; Drug Targets; Cytokine; Tumor Necrosis Factor (TNF); Immunotherapy; Antibody Therapy; Cancer

NCBI AND UNIPROT INFORMATION

NCBI GI #	2411500
NCBI GeneID	8600
Molecular Weight	47.1 kDa
NCBI Official Full Name	TRANCE, partial
NCBI Official Synonym Full Names	TNF superfamily member 11
NCBI Official Symbol	TNFSF11
NCBI Official Synonym Symbols	ODF; OPGL; sOdf; CD254; OPTB2; RANKL; TNLG6B; TRANCE; hRANKL2
NCBI Protein Information	tumor necrosis factor ligand superfamily member 11

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/hek293-active-protein/rankl/258585>