

Human TNFSF11/RANKL ELISA Kit | TNFSF11 elisa kit

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CATALOG #
AAA11628

REACTIVITY
Human

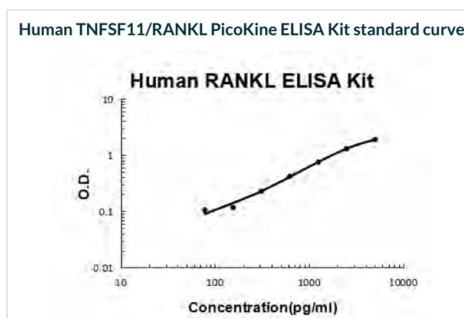
PRODUCT SYNONYMS

TNFSF11/RANKL; Human TNFSF11/RANKL ELISA Kit; Tumor necrosis factor ligand superfamily member 11; tumor necrosis factor (ligand) superfamily; member 11; CD254; CD254 antigen; 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; soluble form; TNF-related activation-induced cytokine; TNF11_HUMAN; Tnfsf11; TRANCE; TNFSF11 elisa kit

PRODUCT SPECIFICATIONS

Reactivity	Human
Specificity	Natural and recombinant Human TNFSF11
Sequence Length	317
Samples	Cell culture supernatants, cell lysates, serum and plasma (heparin, EDTA)
Detection Range	78 pg/ml - 5,000 pg/ml
Sensitivity	<10 pg/ml
Intra-assay Precision	Intra-Assay Precision (Precision within an assay): Three samples of known concentration were tested on one plate to assess intra-assay precision.
Inter-assay Precision	Inter-Assay Precision (Precision across assays): Three samples of known concentration were tested in separate assays to assess inter-assay precision.
Preparation and Storage	Store at 4 degree C for 6 months, at -20 degree C for 12 months. Avoid multiple freeze-thaw cycles (Shipped with wet ice.)

IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for TNFSF11 elisa kit	Background: Receptor activator of nuclear factor kappa-B ligand (RANKL), also known as tumor necrosis factor ligand superfamily member 11 (TNFSF11), is a protein that in humans is encoded by the TNFSF11 gene. This gene encodes 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. This gene is mapped to chromosome13q14.11. Targeted disruption of the related gene in mice led to severe osteopetrosis and a lack of osteoclasts. The deficient mice exhibited defects in early differentiation of T and B lymphocytes, and failed to form lobulo-alveolar mammary structures during pregnancy. This gene may play an important role in enhanced bone-resorption in humoral hypercalcemia of malignancy. Principle of the Assay: The Picokine™ Human TNFSF11 Pre-Coated ELISA (Enzyme-Linked Immunosorbent Assay) kit is a solid-phase immunoassay specially designed to measure Human TNFSF11 with a 96-well strip plate that is pre-coated with antibody specific for TNFSF11. The detection antibody is a biotinylated antibody specific for TNFSF11. The capture antibody is polyclonal antibody from goat and the detection antibody is polyclonal antibody from goat. The kit includes Human TNFSF11 protein as standards. To measure Human TNFSF11, add standards and samples to the wells, then add the biotinylated detection antibody. Wash the wells with PBS or TBS buffer, and add Avidin-Biotin-Peroxidase Complex (ABC-HRP). Wash away the unbounded ABC-HRP with PBS or TBS buffer and add TMB. TMB is an HRP substrate and will be catalyzed to produce a blue color product, which changes into yellow after adding the acidic stop solution. The absorbance of the yellow product at 450nm is linearly proportional to Human TNFSF11 in the sample. Read the absorbance of the yellow product in each well using a plate reader, and benchmark the sample wells' readings against the standard curve to determine the concentration of Human TNFSF11 in the sample.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	12643360
NCBI GeneID	8600
UniProt Accession #	O14788; O14723; Q96Q17; Q9P2Q3
Molecular Weight	30,523 Da
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; sOdf; CD254; OPTB2; RANKL; TRANCE; hRANKL2
NCBI Protein Information	tumor necrosis factor ligand superfamily member 11; 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
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_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.