

## Mouse TNFSF11/RANKL ELISA Kit | TNFSF11 elisa kit

Mouse TNFSF11/RANKL PicoKine ELISA Kit

CATALOG #  
**AAA45972**

REACTIVITY  
**Mouse**

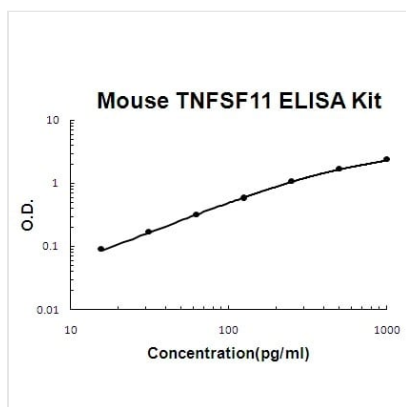
### PRODUCT SYNONYMS

TNFSF11/RANKL; Mouse TNFSF11/RANKL PicoKine 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              | Mouse                                                                                                                                                 |
| Specificity             | Natural and recombinant mouse TNFSF11                                                                                                                 |
| Sequence Length         | 316                                                                                                                                                   |
| Samples                 | Cell culture supernates, serum and plasma (heparin, EDTA)                                                                                             |
| Assay Type              | Sandwich                                                                                                                                              |
| Detection Range         | 62.5pg/ml-4000pg/ml                                                                                                                                   |
| Sensitivity             | < 10pg/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 between 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)

Mouse TNFSF11/RANKL PicoKine ELISA Kit standard curve

## ADDITIONAL INFORMATION

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| <b>Related Product Information for TNFSF11 elisa kit</b> | <p><b>Principle of the assay:</b> mouse TNFSF11 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for TNFSF11 has been precoated onto 96-well plates. Standards(NSO, R72-D316) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFSF11 is added subsequently and then followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color product that changed into yellow after adding acidic stop solution. The density of yellow is proportional to the mouse TNFSF11 amount of sample captured in plate.</p> <p><b>Background:</b> 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.</p> |
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## NCBI AND UNIPROT INFORMATION

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|----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GI #                        | 342187063                                                                                                                                                                                                                                                                                                                                                                       |
| NCBI GeneID                      | 21943                                                                                                                                                                                                                                                                                                                                                                           |
| UniProt Accession #              | O35235; O35306; Q3TWY5; Q9JJK8; Q9JJK9; Q9R1Y0                                                                                                                                                                                                                                                                                                                                  |
| Molecular Weight                 | 22,150 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; OPG; OPGL; RANKL; Ly109l; Trance                                                                                                                                                                                                                                                                                                                                           |
| NCBI Protein Information         | tumor necrosis factor ligand superfamily member 11; OPG ligand; osteoprotegerin ligand; osteoclast differentiation factor; receptor activator of NF-kappaB ligand; TNF-related activation-induced cytokine; receptor activator of nuclear factor kappa B ligand; receptor activator of nuclear factor kappa-B ligand; tumor necrosis factor-related activation-induced cytokine |
| 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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