

## Rat CD254 ELISA Kit | TNFSF11 elisa kit

Rat CD254 ELISA Kit

CATALOG #  
AAA263171

REACTIVITY  
Rat

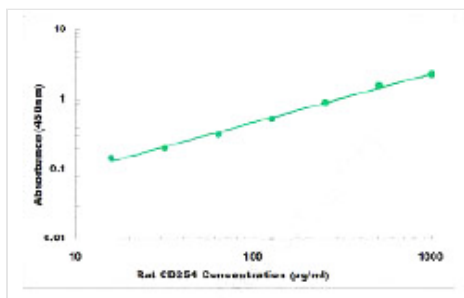
### PRODUCT SYNONYMS

CD254; Rat CD254 ELISA Kit; OPGL; RANKL; TRANCE; Tumor necrosis factor ligand superfamily member 11; Osteoclast differentiation factor; ODF; Osteoprotegerin ligand; Receptor activator of nuclear factor kappa-B ligand; TNF-related activation-induced cytokine; TNFSF11 elisa kit

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                        |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Reactivity              | Rat                                                                                                                                                                                    |
| Specificity             | The Rat CD254 ELISA Kit allows for the detection and quantification of endogenous levels of natural and/or recombinant Rat CD254 proteins within the range of 15.6 pg/ml - 1000 pg/ml. |
| Sequence Length         | 318                                                                                                                                                                                    |
| Samples                 | Cell Culture Supernates, Serum, Plasma                                                                                                                                                 |
| Sensitivity             | <10 pg/ml                                                                                                                                                                              |
| Preparation and Storage | Shipped and store at 4 degree C for 6 months, store at -20 degree C for one year. Avoid freeze/thaw cycles.                                                                            |

### IMAGES



Standard Curve (Sample)

ADDITIONAL INFORMATION

|                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
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| Related Product Information for TNFSF11 elisa kit | <p>Principle of the Assay: The Rat CD254 ELISA (Enzyme-Linked Immunosorbent Assay) kit is an in vitro enzyme-linked immunosorbent assay for the quantitative measurement of Rat CD254 in Cell Culture Supernates, Serum, Plasma. This assay employs an antibody specific for Rat CD254 coated on a 96-well plate. Standards and samples are pipetted into the wells and CD254 present in a sample is bound to the wells by the immobilized antibody. The wells are washed and biotinylated anti-Rat CD254 antibody is added. After washing away unbound biotinylated antibody, HRP-conjugated streptavidin is pipetted to the wells. The wells are again washed, a TMB substrate solution is added to the wells and color develops in proportion to the amount of CD254 bound. The Stop Solution changes the color from blue to yellow, and the intensity of the color is measured at 450 nm.</p> <p>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. The rat gene is mapped to 15q11. 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

|                                  |                                                    |
|----------------------------------|----------------------------------------------------|
| NCBI GI #                        | 16924012                                           |
| NCBI GeneID                      | 117516                                             |
| NCBI Accession #                 | NP_476490.1                                        |
| NCBI GenBank Nucleotide #        | NM_057149.1                                        |
| UniProt Accession #              | Q9ESE2; Q91Z19                                     |
| Molecular Weight                 | 35,370 Da                                          |
| NCBI Official Full Name          | tumor necrosis factor ligand superfamily member 11 |
| NCBI Official Synonym Full Names | tumor necrosis factor superfamily member 11        |
| NCBI Official Symbol             | Tnfsf11                                            |
| NCBI Official Synonym Symbols    | RANKL                                              |
| 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_RAT                                          |

**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.