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Datasheet for ABIN6720256

**RANKL ELISA Kit**

## Overview

Quantity:	1 kit
Target:	RANKL (TNFSF11)
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	62.5 pg/mL - 4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

## Product Details

Purpose:	Sandwich ELISA for Quantitative Detection of Antigen
Sample Type:	Cell Culture Supernatant, Plasma (EDTA - heparin), Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Characteristics:	<p>Synonyms: 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, tumor necrosis factor (ligand) superfamily, member 11, Tumor necrosis factor ligand superfamily member 11</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</p>

## Product Details

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.

Gene Name: TNFSF11

Production: Natural and recombinant mouse TNFSF11. There is no detectable cross-reactivity with other relevant proteins.

Standard: Expression system for standard: NSO, Immunogen sequence: R72-D316

## Target Details

Target: RANKL (TNFSF11)

Alternative Name: TNFSF11 - RANKL ([TNFSF11 Products](#))

Gene ID: 21943

NCBI Accession: [NP\\_035743](#)

UniProt: [O35235](#)

Pathways: [NF-kappaB Signaling](#)

## Application Details

Application Notes: Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL mouse TNFSF11 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. It is recommended that each mouse TNFSF11 standard solution and each sample be measured in duplicate.

Blood Product Anticoagulant: Heparin Sodium

ELISA Dilution: 62.5pg/mL-4000pg/mL

Sample Volume: 100 µL

Plate: Pre-coated

## Application Details

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Restrictions: For Research Use only

## Handling

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Storage: RT, 4 °C, -20 °C

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Storage Comment: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.