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Datasheet for ABIN1672818

## TNFSF4 ELISA Kit

### 1 Image

#### Overview

Quantity:	96 tests
Target:	TNFSF4
Binding Specificity:	AA 51-198
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

#### Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse TNFSF4/OX40L
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: S51-L198
Specificity:	Expression system for standard: NSO Immunogen sequence: S51-L198
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

## Product Details

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Sensitivity: <10pg/mL

Material not included: Microplate reader in standard size. Automated plate washer. Adjustable pipettes and pipette tips. Multichannel pipettes are recommended in the condition of large amount of samples in the detection. Clean tubes and Eppendorf tubes. Washing buffer (neutral PBS or TBS). Preparation of 0.01M TBS: Add 1.2g Tris, 8.5g NaCl

## Target Details

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Target: TNFSF4

Alternative Name: TNFSF4 ([TNFSF4 Products](#))

Background: Protein Function: Cytokine that binds to TNFRSF4. Co-stimulates T-cell proliferation and cytokine production.

Background: OX40L is the ligand for CD134 and is expressed on such cells as DC2s enabling amplification of Th2 cell differentiation. OX40L has also been designated CD252. By analysis of an interspecific backcross, Baum et al.(1994) mapped the mouse Tnfsf4 gene to chromosome 1. Using fluorescence in situ hybridization, they localized the human TNFSF4 gene to 1q25, a region sharing homology of synteny with the portion of mouse chromosome 1 containing the Tnfsf4 gene. OX40L strongly inhibited the generation of IL-10-producing Tr1 cells induced by two physiologic stimuli, the inducible costimulatory ligand and immature dendritic cells. In addition, OX40L strongly inhibited IL-10 production and suppressive function of differentiated IL-10-producing Tr1 cells. Tnfsf4 underlies Ath1 in mice and that polymorphisms in its human homolog TNFSF4 increase the risk of myocardial infarction in humans.

Synonyms: Tumor necrosis factor ligand superfamily member 4, OX40 ligand, OX40L, CD252, Tnfsf4, Ox40l, Txgp11,

Full Gene Name: Tumor necrosis factor ligand superfamily member 4

Cellular Localisation: Membrane, Single-pass type II membrane protein.

Gene ID: 22164

UniProt: [P43488](#)

Pathways: [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Production of Molecular Mediator of Immune Response](#), [Activated T Cell Proliferation](#), [Cancer Immune Checkpoints](#)

## Application Details

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Application Notes: Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

## Application Details

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assay was recommended for both standard and sample testing.

Plate: Pre-coated

Protocol: mouse TNFSF4 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for TNFSF4 has been precoated onto 96-well plates. Standards(NSO, S51-L198) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFSF4 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 TNFSF4 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL mouse TNFSF4 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. See "Sample Dilution Guideline" above for details. It is recommended that each mouse TNFSF4 standard solution and each sample be measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 534, Standard deviation: 23.5, CV(%): 4.4
- Sample 2: n=16, Mean(pg/ml): 1107, Standard deviation: 43.2, CV(%): 3.9
- Sample 3: n=16, Mean(pg/ml): 2374, Standard deviation: 125.8, CV(%): 5.3,
- Sample 1: n=24, Mean(pg/ml): 639, Standard deviation: 37.1, CV(%): 5.8
- Sample 2: n=24, Mean(pg/ml): 1320, Standard deviation: 60.7, CV(%): 4.6
- Sample 3: n=24, Mean(pg/ml): 2448, Standard deviation: 156.7, CV(%): 6.4

Restrictions: For Research Use only

## Handling

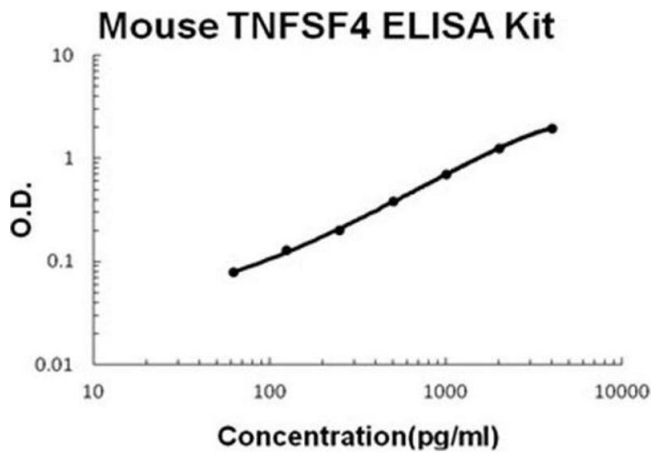
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Handling Advice: Avoid multiple freeze-thaw cycles.

Storage: -20 °C,4 °C

Storage Comment: Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles

Expiry Date: 12 months



#### ELISA

**Image 1.** Mouse TNFSF4/OX40L PicoKine ELISA Kit standard curve