

Datasheet for ABIN1672817
TNFSF4 ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	TNFSF4
Binding Specificity:	AA 51-183
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human 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: Q51-L183
Specificity:	Expression system for standard: NSO Immunogen sequence: Q51-L183
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

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

Target:	TNFSF4
Alternative Name:	TNFSF4 (TNFSF4 Products)
Background:	<p>Protein Function: Cytokine that binds to TNFRSF4. Co-stimulates T-cell proliferation and cytokine production.</p> <p>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, the mouse Tnfsf4 gene is mapped 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.</p> <p>Synonyms: Tumor necrosis factor ligand superfamily member 4,Glycoprotein Gp34,OX40 ligand,OX40L,TAX transcriptionally-activated glycoprotein 1,CD252,TNFSF4,TXGP1,</p> <p>Full Gene Name: Tumor necrosis factor ligand superfamily member 4</p> <p>Cellular Localisation: Membrane, Single-pass type II membrane protein.</p>
Gene ID:	7292
UniProt:	P23510
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

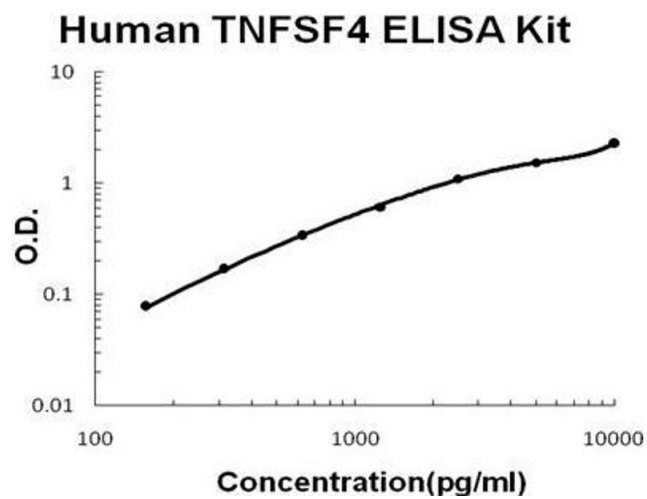
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well
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Application Details

	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the tumor necrosis factor family.
Plate:	Pre-coated
Protocol:	human TNFSF4 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TNFSF4 has been precoated onto 96-well plates. Standards(NSO, Q51-L183) 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 human TNFSF4 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 313pg/mL, 156pg/mL human 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 human cell culture supernates, serum or plasma (heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human TNFSF4 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(ng/ml): 1.96, Standard deviation: 0.067, CV(%): 3.4• Sample 2: n=16, Mean(ng/ml): 3.17, Standard deviation: 0.143, CV(%): 4.5• Sample 3: n=16, Mean(ng/ml): 5.86, Standard deviation: 0.299, CV(%): 5.1,• Sample 1: n=24, Mean(ng/ml): 2.07, Standard deviation: 0.087, CV(%): 4.2• Sample 2: n=24, Mean(ng/ml): 3.24, Standard deviation: 0.188, CV(%): 5.8• Sample 3: n=24, Mean(ng/ml): 6.15, Standard deviation: 0.381, CV(%): 6.2
Restrictions:	For Research Use only

Handling

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. Human TNFSF4/OX40L PicoKine ELISA Kit standard curve