Datasheet for ABIN1672893

TNFRSF4 ELISA Kit

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Overview

Quantity:	96 tests
Target:	TNFRSF4
Binding Specificity:	AA 20-211
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse TNFRSF4/OX40
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: V20-P211
Specificity:	Expression system for standard: NSO Immunogen sequence: V20-P211
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:	TNFRSF4
Alternative Name:	TNFRSF4 (TNFRSF4 Products)
Background:	Protein Function: Receptor for TNFSF4/OX40L/GP34. Is a costimulatory molecule implicated in long-term T-cell immunity (By similarity). . Background: Tumor necrosis factor receptor superfamily, member4, also known as ACT35 or CD134 is a cell surface glycoprotein that was discovered through the production of a monoclonal antibody raised against the HUT-102 cell line. It belongs to the tumor necrosis factor receptor superfamily. CD134 was mapped to 1p36 by fluorescence in situ hybridization. CD134 is the primary receptor for feline immunodeficiency virus. CD134 expression can promote viral binding and renders cells permissive for viral entry, productive infection, and syncytium formation. Stimulating the receptor can improve the response to a powerful virus vector and may be useful in vaccine development. Synonyms: Tumor necrosis factor receptor superfamily member 4,OX40 antigen,OX40L receptor,CD134,Tnfrsf4,Ox40, Txgp1, Full Gene Name: Tumor necrosis factor receptor superfamily member 4 Cellular Localisation: Membrane, Single-pass type I membrane protein.
Gene ID:	22163
UniProt:	P47741
Pathways:	Production of Molecular Mediator of Immune Response, Cancer Immune Checkpoints

Application Details

Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Plate:	Pre-coated
Protocol:	mouse TNFRSF4 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent

Application Details

assay technology. A monoclonal antibody from rat specific for TNFRSF4 has been precoated onto 96-well plates. Standards(NSO, V20-P211) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFRSF4 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 TNFRSF4 amount of sample captured in plate.

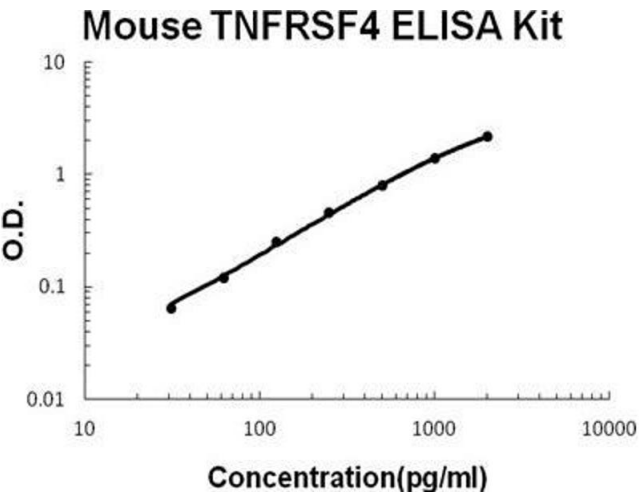|	
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL mouse TNFRSF4 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted 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 TNFRSF4 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 224, Standard deviation: 7.62, CV(%): 3.4 • Sample 2: n=16, Mean(pg/ml): 732, Standard deviation: 32.94, CV(%): 4.5 • Sample 3: n=16, Mean(pg/ml): 1463, Standard deviation: 83.4, CV(%): 5.7, • Sample 1: n=24, Mean(pg/ml): 364, Standard deviation: 17.5, CV(%): 4.8 • Sample 2: n=24, Mean(pg/ml): 885, Standard deviation: 49.56, CV(%): 5.6 • Sample 3: n=24, Mean(pg/ml): 1376, Standard deviation: 95, CV(%): 6.9
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

Images

Mouse TNFRSF4 ELISA Kit

ELISA

Image 1. Mouse TNFRSF4/OX40 PicoKine ELISA Kit standard curve