Datasheet for ABIN1672837

TNFSF13 ELISA Kit

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Overview

Quantity:	96 tests
Target:	TNFSF13
Binding Specificity:	AA 105-250
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 TNFSF13/APRIL
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: A105-L250
Specificity:	Expression system for standard: NSO,A105-L250
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.
Sensitivity:	<10pg/mL

Product Details

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:	TNFSF13
Alternative Name:	TNFSF13/APRIL (TNFSF13 Products)
Background:	Background: Tumor necrosis factor ligand superfamily member 13(TNFSF13) also known as a proliferation-inducing ligand(APRIL) is a protein that in humans is encoded by the TNFSF13 gene. TNFSF13 has also been designated CD256(cluster of differentiation 256). The protein encoded by this gene is a member of the tumor necrosis factor ligand(TNF) ligand family. This protein is a ligand for TNFRSF17/BCMA, a member of the TNF receptor family. This protein and its receptor are both found to be important for B cell development. In vivo experiments suggest an important role for APRIL in the long-term survival of plasma cells in the bone marrow. Mice deficient in April showed a reduced ability to support plasma cell survival In vitro experiments suggested that this protein may be able to induce apoptosis through its interaction with other TNF receptor family proteins such asTNFRSF6/FAS and TNFRSF14/HVEM. Three alternatively spliced transcript variants of this gene encoding distinct isoforms have been reported. The TNFSF13 gene lies 878 bp downstream of the TNFSF12 gene on chromosome 17p13.1. Synonyms: Tumor necrosis factor (Ligand) superfamily member 13 transcript variant delta ,Tumor necrosis factor ligand superfamily member 13 ,TNFSF13 , Full Gene Name: tumor necrosis factor (ligand) superfamily, member 13
Gene ID:	8741
UniProt:	Q2QBA2
Pathways:	Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response

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

Application Details

Protocol:	human TNFSF13 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TNFSF13 has been precoated onto 96-well plates. Standards (NSO,A105-L250) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFSF13 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 TNFSF13 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, 312pg/mL, 156pg/mL human TNFSF13 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 TNFSF13 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 653, Standard deviation: 26.8, CV(%): 4.1 • Sample 2: n=16, Mean(pg/ml): 2945, Standard deviation: 156.1, CV(%): 5.3 • Sample 3: n=16, Mean(pg/ml): 5633, Standard deviation: 219.7, CV(%): 3.9, • Sample 1: n=24, Mean(pg/ml): 864, Standard deviation: 42.4, CV(%): 4.9 • Sample 2: n=24, Mean(pg/ml): 3214, Standard deviation: 202.5, CV(%): 6.3 • Sample 3: n=24, Mean(pg/ml): 5366, Standard deviation: 268.3, CV(%): 5
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

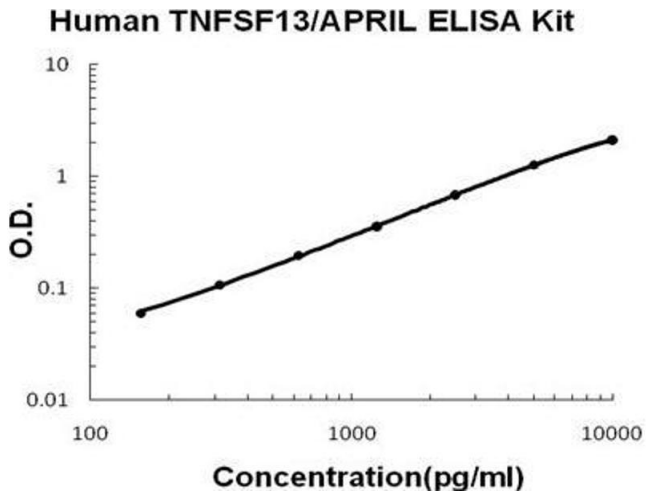
Publications

Product cited in:	Gözmen, Karapnar, Tüfekçi, Vergin, Yüksel, Irken, Oren: "B-cell-activating factor, a proliferation inducing ligand and co-stimulatory molecules in the pathogenesis of immune thrombocytopenia in childhood." in: **Blood coagulation & fibrinolysis : an international journal**

Publications

in haemostasis and thrombosis, (2014) (PubMed).

Images



ELISA

Image 1. Human TNFSF13/APRIL PicoKine ELISA Kit standard curve