



Datasheet for ABIN411364

TNFRSF1B ELISA Kit

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Overview

Quantity: 96 tests

Target: TNFRSF1B

Binding Specificity: AA 23-257

Reactivity: Human

Method Type: Sandwich ELISA

Detection Range: 7.8-500 pg/mL

Minimum Detection Limit: 7.8 pg/mL

Application: ELISA

Product Details

Purpose: Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human sTNFsR???

Brand: PicoKine™

Sample Type: Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Plasma (citrate), Urine

Analytical Method: Quantitative

Detection Method: Colorimetric

Immunogen: Expression system for standard: NSO

Immunogen sequence: L23-D257

Specificity: Expression system for standard: NSO

Immunogen sequence: L23-D257

Cross-Reactivity (Details): There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<2pg/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:	TNFRSF1B
Alternative Name:	TNFRSF1B (TNFRSF1B Products)
Background:	<p>Protein Function: Receptor with high affinity for TNFSF2/TNF-alpha and approximately 5-fold lower affinity for homotrimeric TNFSF1/lymphotoxin-alpha. The TRAF1/TRA2 complex recruits the apoptotic suppressors BIRC2 and BIRC3 to TNFRSF1B/TNFR2. This receptor mediates most of the metabolic effects of TNF-alpha. Isoform 2 blocks TNF-alpha-induced apoptosis, which suggests that it regulates TNF-alpha function by antagonizing its biological activity..</p> <p>Background: Tumor necrosis factor receptor p75(TNF-R p75, or TNF-R2) is a 75- kDa type I transmembrane protein expressed predominantly on cells of hematopoietic lineage. TNF-R p75 belongs to the TNF receptor superfamily characterized by cysteine-rich extracellular regions composed of three to six disulfide-linked domains. The tumor necrosis factor receptor II(TNFRII) gene localizes to 1p36. 2, a genomic region characteristically deleted in neuroblastomas and other malignancies. In addition, TNFRII is the principal mediator of the effects of TNF on cellular immunity, and it may cooperate with TNFR1 in the killing of nonlymphoid cells. The standard product used in this kit is recombinant human sTNFRII, consisting of 24-206 amino acid sequence with the molecular mass of 20KDa.</p> <p>Synonyms: Tumor necrosis factor receptor superfamily member 1B,Tumor necrosis factor receptor 2,TNF-R2,Tumor necrosis factor receptor type II,TNF-RII,TNFR-II,p75,p80 TNF-alpha receptor,CD120b,Etanercept,Tumor necrosis factor receptor superfamily member 1b, membrane form,Tumor necrosis factor-binding protein 2,TBP-2,TBPII,TNFRSF1B,TNFBR, TNFR2,</p> <p>Full Gene Name: Tumor necrosis factor receptor superfamily member 1B</p> <p>Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.</p>
Gene ID:	7133
UniProt:	P20333

Target Details

Pathways:	NF-kappaB Signaling , Apoptosis , Cellular Response to Molecule of Bacterial Origin , Hepatitis C , Ubiquitin Proteasome Pathway
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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.
Comment:	Sequence similarities: Contains 4 TNFR-Cys repeats.
Plate:	Pre-coated
Protocol:	human sTNFsRII ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for sTNFsRII has been precoated onto 96-well plates. Standards(NSO, L23-D257) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for sTNFsRII 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 sTNFsRII amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.3pg/mL, 15.6pg/mL, 7.8pg/mL human sTNFsRII 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, plasma(heparin, EDTA, citrate) or urine to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each human sTNFsRII standard solution and each sample is measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 63, Standard deviation: 3.09, CV(%): 4.9• Sample 2: n=16, Mean(pg/ml): 125, Standard deviation: 7.13, CV(%): 5.7• Sample 3: n=16, Mean(pg/ml): 257, Standard deviation: 9.25, CV(%): 3.6,• Sample 1: n=24, Mean(pg/ml): 78, Standard deviation: 4.76, CV(%): 6.1• Sample 2: n=24, Mean(pg/ml): 134, Standard deviation: 9.65, CV(%): 7.2• Sample 3: n=24, Mean(pg/ml): 269, Standard deviation: 14, CV(%): 5.2
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

Images

