Datasheet for ABIN1889302

TNFRSF1B ELISA Kit

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Overview

Quantity:	96 tests
Target:	TNFRSF1B
Binding Specificity:	AA 23-258
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	15.6-1000 pg/mL
Minimum Detection Limit:	15.6 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse TNFR2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: V23-G258
Specificity:	Expression system for standard: NSO Immunogen sequence: V23-G258
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Sensitivity:	<1pg/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

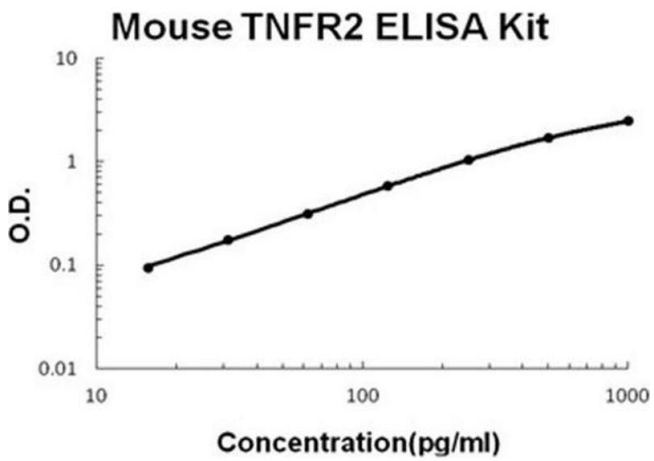
Target:	TNFRSF1B
Alternative Name:	TNFRSF1B (TNFRSF1B Products)
Background:	Protein Function: Receptor with high affinity for TNFSF2/TNF-alpha and approximately 5-fold lower affinity for homotrimeric TNFSF1/lymphotoxin-alpha. The TRAF1/TRAF2 complex recruits the apoptotic suppressors BIRC2 and BIRC3 to TNFRSF1B/TNFR2 (By similarity). . Background: Tumor necrosis factor receptor 2(TNFR2) is one of receptors of TNF. TNF has proinflammatory and immunosuppressive properties that may segregate at the level of the 2 TNF receptors(TNFRs), TNFR1 and TNFR2. The genes for TNFR1, a 55- kDa protein, and TNFR2, a 70- kDa protein, have been mapped to human chromosomes 12(12pter-cen) and 1(1pter-p32), respectively. TNFR2 was induced on glomerular endothelial cells of nephritic kidneys, and TNFR2 expression on intrinsic cells, but not leukocytes, was essential for glomerulonephritis and glomerular complement deposition. TNFR1 promotes systemic immune responses and renal T cell death, while intrinsic cell TNFR2 plays a critical role in complement-dependent tissue injury. Therefore, therapeutic blockade specifically of TNFR2 may be a promising strategy in the treatment of immune-mediated glomerulonephritis. 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,Tnfrsf1b,Tnfr-2, Tnfr2, Full Gene Name: Tumor necrosis factor receptor superfamily member 1B Cellular Localisation: Membrane, Single-pass type I membrane protein.
Gene ID:	21938
UniProt:	P25119
Pathways:	NF-kappaB Signaling, Apoptosis, Cellular Response to Molecule of Bacterial Origin, Hepatitis C, Ubiquitin Proteasome Pathway

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 TNFR2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for TNFR2 has been precoated onto 96-well plates. Standards(NSO, V23-G258) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFR2 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 TNFR2 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL, 15.6pg/mL mouse TNFR2 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 or serum to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse TNFR2 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 92, Standard deviation: 4.6, CV(%): 5 • Sample 2: n=16, Mean(pg/ml): 263, Standard deviation: 11.57, CV(%): 4.4 • Sample 3: n=16, Mean(pg/ml): 492, Standard deviation: 27.6, CV(%): 5.6, • Sample 1: n=24, Mean(pg/ml): 104, Standard deviation: 5.4, CV(%): 5.2 • Sample 2: n=24, Mean(pg/ml): 253, Standard deviation: 14.67, CV(%): 5.8 • Sample 3: n=24, Mean(pg/ml): 527, Standard deviation: 32.2, CV(%): 6.1
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. Mouse TNFR2 PicoKine ELISA Kit standard curve