Datasheet for ABIN1672765

BCMA ELISA Kit

1 Image

Go to Product page

Overview

Quantity:	96 tests
Target:	BCMA (TNFRSF17)
Binding Specificity:	AA 1-54
Reactivity:	Human
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 Human TNFRSF17/BCMA
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: M1-A54
Specificity:	Expression system for standard: NSO Immunogen sequence: M1-A54
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:	BCMA (TNFRSF17)
Alternative Name:	TNFRSF17 (TNFRSF17 Products)
Background:	Protein Function: Receptor for TNFSF13B/BLyS/BAFF and TNFSF13/APRIL. Promotes B-cell survival and plays a role in the regulation of humoral immunity. Activates NF-kappa-B and JNK. . Background: TNFRSF17(Tumor necrosis factor receptor superfamily member 17), also called BCMA, is a protein that in humans is encoded by the TNFRSF17 gene. The protein encoded by this gene is a member of the TNF-receptor superfamily and is mapped to 16p13.13. This receptor is preferentially expressed in mature B lymphocytes, and may be important for B cell development and autoimmune response. This receptor has been shown to specifically bind to the tumor necrosis factor(ligand) superfamily, member 13b(TNFSF13B/TALL-1/BAFF), and to lead to NF-kappaB and MAPK8/JNK activation. This receptor also binds to various TRAF family members, and thus may transduce signals for cell survival and proliferation. Synonyms: Tumor necrosis factor receptor superfamily member 17,B-cell maturation protein,CD269,TNFRSF17,BCM, BCMA, Full Gene Name: Tumor necrosis factor receptor superfamily member 17 Cellular Localisation: Cell membrane, Single-pass type III membrane protein. Endomembrane system, Single-pass type III membrane protein. Perinuclear Golgi-like structures.
Gene ID:	608
UniProt:	Q02223

Application Details

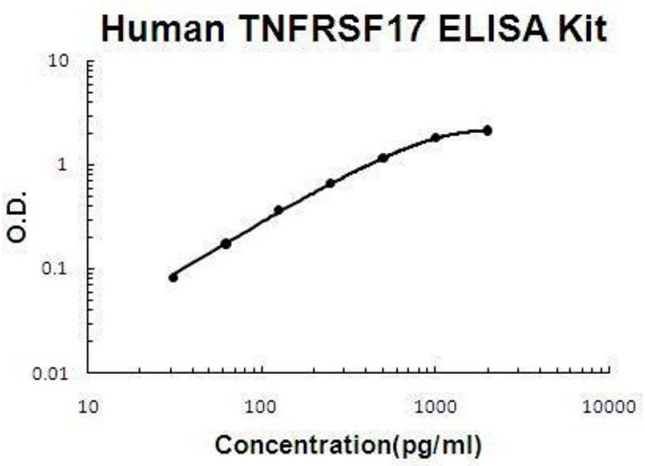
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Contains 1 TNFR-Cys repeat. Tissue Specificity: Expressed in mature B-cells, but not in T- cells or monocytes.

Application Details

Plate:	Pre-coated
Protocol:	human TNFRSF17 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for TNFRSF17 has been precoated onto 96-well plates. Standards(NSO, M1-A54) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for TNFRSF17 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 TNFRSF17 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 human TNFRSF17 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 TNFRSF17 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 134, Standard deviation: 4.69, CV(%): 3.5 • Sample 2: n=16, Mean(pg/ml): 642, Standard deviation: 35.95, CV(%): 5.6 • Sample 3: n=16, Mean(pg/ml): 1286, Standard deviation: 61.73, CV(%): 4.8, • Sample 1: n=24, Mean(pg/ml): 158, Standard deviation: 6.64, CV(%): 4.2 • Sample 2: n=24, Mean(pg/ml): 614, Standard deviation: 41.14, CV(%): 6.7 • Sample 3: n=24, Mean(pg/ml): 1358, Standard deviation: 73.33, CV(%): 5.4
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 TNFRSF17/BCMA PicoKine ELISA Kit standard curve

