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Datasheet for ABIN1672766

BCMA ELISA Kit

1 Image

Overview

Quantity:	96 tests
Target:	BCMA (TNFRSF17)
Binding Specificity:	AA 1-49
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 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-T49
Specificity:	Expression system for standard: NSO Immunogen sequence: M1-T49
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 (By similarity). .

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: Membrane, Single-pass type III membrane protein.

Gene ID: 21935

UniProt: [088472](#)

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: Tissue Specificity: Detected in spleen, thymus, bone marrow and heart, and at lower levels in kidney and lung.

Application Details

Plate:	Pre-coated
Protocol:	mouse TNFRSF17 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for TNFRSF17 has been precoated onto 96-well plates. Standards(NSO, M1-T49) 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 mouse TNFRSF17 amount of sample captured in plate.

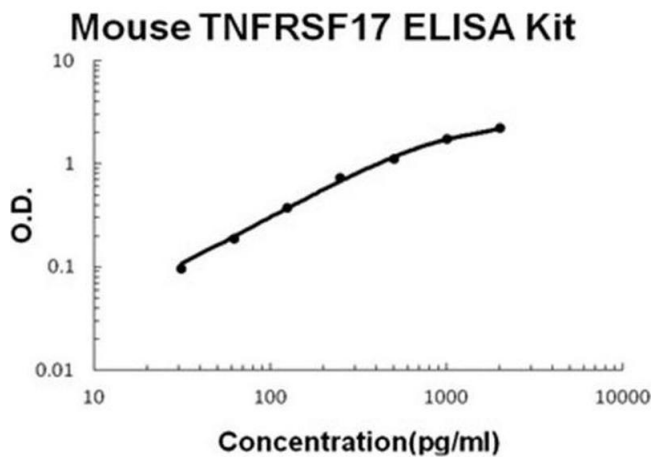
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL,1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL mouse TNFRSF17 standard solutions into the precoated 96-well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL of each properly diluted sample of 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 TNFRSF17 standard solution and each sample be measured in duplicate.
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Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 126, Standard deviation: 5.67, CV(%): 4.5• Sample 2: n=16, Mean(pg/ml): 755, Standard deviation: 24.16, CV(%): 3.2• Sample 3: n=16, Mean(pg/ml): 1323, Standard deviation: 70.12, CV(%): 5.3,• Sample 1: n=24, Mean(pg/ml): 240, Standard deviation: 13.92, CV(%): 5.8• Sample 2: n=24, Mean(pg/ml): 875, Standard deviation: 40.25, CV(%): 4.6• Sample 3: n=24, Mean(pg/ml): 1434, Standard deviation: 88.91, CV(%): 6.2
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Restrictions:	For Research Use only
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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 TNFRSF17/BCMA PicoKine ELISA Kit standard curve