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CD40 ELISA Kit





Overview

Quantity:	96 tests
Target:	CD40
Binding Specificity:	AA 24-193
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 CD40/TNFRSF5
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Cell Lysate, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: V24-R193
Specificity:	Expression system for standard: NSO Immunogen sequence: V24-R193
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

Product Details

Toddet 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:	CD40
Alternative Name:	CD40 (CD40 Products)
Background:	Protein Function: Receptor for TNFSF5/CD40LG. Transduces TRAF6- and MAP3K8-mediated signals that activate ERK in macrophages and B cells, leading to induction of immunoglobulin secretion. Background: CD40 is a cell surface receptor that is expressed on the surface of all mature B cells, most mature B-cell malignancies, and some early B-cell acute lymphocytic leukemias, but is not expressed on plasma cells. The CD40 gene is localized to the long arm of chromosome 20, bands q12-q13.2. The protein encoded by this gene is a member of the TNF-receptor superfamily. This receptor has been found to be essential in mediating a broad variety of immune and inflammatory responses including T cell-dependent immunoglobulin class switching, memory B cell development, and germinal center formation. Synonyms: Tumor necrosis factor receptor superfamily member 5,B-cell surface antigen CD40,Bp50,CD40L receptor,CD40,Cd40,Tnfrsf5, Full Gene Name: Tumor necrosis factor receptor superfamily member 5 Cellular Localisation: Isoform I: Cell membrane, Single-pass type I membrane protein.
Gene ID:	21939
UniProt:	P27512
Pathways:	NF-kappaB Signaling, Cellular Response to Molecule of Bacterial Origin, M Phase, Regulation of Leukocyte Mediated Immunity, Positive Regulation of Immune Effector Process, Production of Molecular Mediator of Immune Response, Cancer Immune Checkpoints
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.

Application Details

Plate:	Pre-coated
Protocol:	mouse CD40 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay
	technology. A monoclonal antibody from rat specific for CD40 has been precoated onto 96-well
	plates. Standards(NSO, V24-R193) and test samples are added to the wells, a biotinylated
	detection polyclonal antibody from goat specific for CD40 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 CD40 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 CD40 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, cell lysates, serum or plasma(heparin,
	EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended
	that each mouse CD40 standard solution and each sample be measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(pg/ml): 95, Standard deviation: 6.46, CV(%): 6.8
	• Sample 2: n=16, Mean(pg/ml): 336, Standard deviation: 17.47, CV(%): 5.2
	• Sample 3: n=16, Mean(pg/ml): 535, Standard deviation: 26.22, CV(%): 4.9,
	 Sample 1: n=24, Mean(pg/ml): 120, Standard deviation: 9.96, CV(%): 8.3 Sample 2: n=24, Mean(pg/ml): 361, Standard deviation: 23.10, CV(%): 6.4
	• Sample 3: n=24, Mean(pg/ml): 541, Standard deviation: 30.30, CV(%): 5.6
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

Mouse CD40/TNFRSF5 ELISA Kit 10 0.01 10 100 1000 Concentration(pg/ml)

ELISA

Image 1. Mouse CD40/TNFRSF5 PicoKine ELISA Kit standard curve