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Datasheet for ABIN1889387 CD56 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	CD56 (NCAM1)
Binding Specificity:	AA 20-711
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	625-40.000 pg/mL
Minimum Detection Limit:	625 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse CD56/NCAM1
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: L20-T711
Specificity:	Expression system for standard: NSO Immunogen sequence: L20-T711
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<20pg/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:	CD56 (NCAM1)
Alternative Name:	NCAM1 (NCAM1 Products)
Background:	Protein Function: This protein is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc. Background: Neural Cell Adhesion Molecule, NCAM, also known as the cluster of differentiation CD56, is a hemophilic binding glycoprotein. It is a glycoprotein of Immunoglobulin(Ig) super family. At least 27 alternatively spliced NCAM mRNAs are produced, giving a wide diversity of NCAM isoforms NCAM gene is located at 11q22-q23. This glycoprotein is mainly expressed on the surface of neurons, glia, skeletal muscle and natural killer cells. NCAM has been implicated as having a role in cellâ€"cell adhesion, neurite outgrowth, synaptic plasticity, and learning and memory. Synonyms: Neural cell adhesion molecule 1,N-CAM-1,NCAM-1,CD56,Ncam1,Ncam, Full Gene Name: Neural cell adhesion molecule 1
	Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.
Gene ID:	17967
UniProt:	P13595

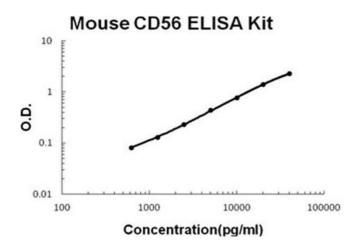
Application Details

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 2 fibronectin type-III domains.
Plate:	Pre-coated
Protocol:	mouse CD56 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for CD56 has been precoated onto 96-well
	plates. Standards(NSO, L20-T711) and test samples are added to the wells, a biotinylated

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Application Details

Storage Comment: Expiry Date:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles 12 months
Storage:	-20 °C,4 °C
Handling Advice:	Avoid multiple freeze-thaw cycles.
Handling	
Restrictions:	For Research Use only
	 Sample 3: n=24, Mean(ng/ml): 32.5, Standard deviation: 2.34, CV(%): 7.2
	 Sample 1: n=24, Mean(ng/ml): 19.5, Standard deviation: 3.984, CV(%): 4.8 Sample 2: n=24, Mean(ng/ml): 19.5, Standard deviation: 1.326, CV(%): 6.8
	 Sample 3: n=16, Mean(ng/ml): 28.6, Standard deviation: 1.83, CV(%): 6.4, Sample 1: n=24, Mean(ng/ml): 8.3, Standard deviation: 3.984, CV(%): 4.8
	 Sample 2: n=16, Mean(ng/ml): 17.2, Standard deviation: 0.946, CV(%): 5.5 Sample 2: n=16, Mean(ng/ml): 28,6, Standard deviation: 1.82, CV(%): 6.4
Assay Precision:	 Sample 1: n=16, Mean(ng/ml): 6.7, Standard deviation: 0.281, CV(%): 4.2 Sample 2: n=16, Mean(ng/ml): 17.2, Standard deviation: 0.246, O)(%): 5.5
	that each mouse CD56 standard solution and each sample be measured in duplicate.
	EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended
	of each properly diluted sample of mouse cell culture supernates, serum or plasma(heparin,
	well plate. Add 0.1 mL of the sample diluent buffer into the control well (Zero well). Add 0.1 mL
	2,500pg/mL, 1,250pg/mL, 625pg/mL mouse CD56 standard solutions into the precoated 96-
Assay Procedure:	Aliquot 0.1 mL per well of the 40,000pg/mL, 20,000pg/mL, 10,000pg/mL, 5,000pg/mL,
	proportional to the mouse CD56 amount of sample captured in plate.
	product that changed into yellow after adding acidic stop solution. The density of yellow is
	to visualize HRP enzymatic reaction. TMB was catalyzed by HRP to produce a blue color
	unbound conjugates were washed away with PBS or TBS buffer. HRP substrate TMB was used
	followed by washing with PBS or TBS buffer. Avidin-Biotin-Peroxidase Complex was added and
	detection polyclonal antibody from goat specific for CD56 is added subsequently and then



ELISA

Image 1. Mouse CD56/NCAM1 PicoKine ELISA Kit standard curve

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