

Datasheet for ABIN921091

CD56 ELISA Kit[Go to Product page](#)

1 Image

Overview

Quantity:	96 tests
Target:	CD56 (NCAM1)
Binding Specificity:	AA 20-718
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	156-10000 pg/mL
Minimum Detection Limit:	156 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CD56/NCAM-1
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-G718
Specificity:	Expression system for standard: NSO Immunogen sequence: L20-G718
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:	CD56 (NCAM1)
Alternative Name:	NCAM1 (NCAM1 Products)
Background:	<p>Protein Function: This protein is a cell adhesion molecule involved in neuron-neuron adhesion, neurite fasciculation, outgrowth of neurites, etc.</p> <p>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 cell-cell adhesion, neurite outgrowth, synaptic plasticity, and learning and memory.</p> <p>Synonyms: Neural cell adhesion molecule 1,N-CAM-1,NCAM-1,CD56,NCAM1,NCAM,</p> <p>Full Gene Name: Neural cell adhesion molecule 1</p> <p>Cellular Localisation: Isoform 1: Cell membrane, Single-pass type I membrane protein.</p>
Gene ID:	4684
UniProt:	P13591

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:	human CD56 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD56 has been precoated onto 96-well plates. Standards(NSO, L20-G718) and test samples are added to the wells, a

Application Details

biotinylated detection polyclonal antibody from goat specific for CD56 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 CD56 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL, 156pg/mL human CD56 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. We recommend that each human CD56 standard solution and each sample is measured in duplicate.

Assay Precision:

- Sample 1: n=16, Mean(ng/ml): 1.52, Standard deviation: 0.082, CV(%): 5.4
- Sample 2: n=16, Mean(ng/ml): 3.48, Standard deviation: 0.212, CV(%): 6.1
- Sample 3: n=16, Mean(ng/ml): 5.34, Standard deviation: 0.368, CV(%): 6.9,
- Sample 1: n=24, Mean(ng/ml): 2.06, Standard deviation: 0.140, CV(%): 6.8
- Sample 2: n=24, Mean(ng/ml): 4.16, Standard deviation: 0.312, CV(%): 7.5
- Sample 3: n=24, Mean(ng/ml): 6.27, Standard deviation: 0.508, CV(%): 8.1

Restrictions: For Research Use only

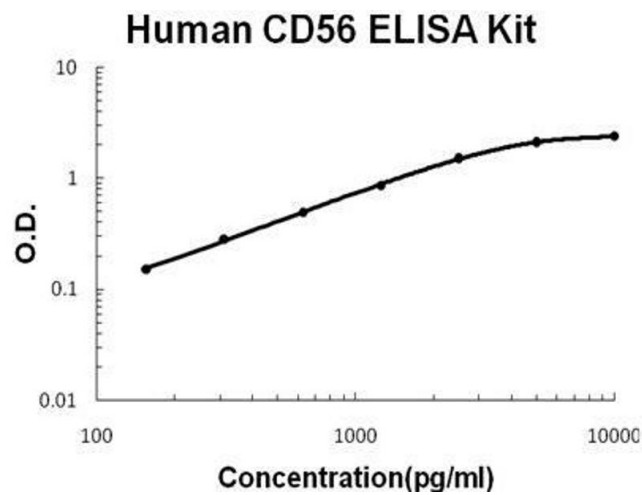
Handling

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. Human CD56/NCAM-1 PicoKine ELISA Kit standard curve