

Datasheet for ABIN2859214
CD93 ELISA Kit[Go to Product page](#)

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Overview

Quantity:	96 tests
Target:	CD93
Binding Specificity:	AA 24-580
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	78-5000 pg/mL
Minimum Detection Limit:	78 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human CD93/C1qR
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin), Plasma (EDTA), Saliva, Urine
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: A24-K580
Specificity:	Expression system for standard: NSO Immunogen sequence: A24-K580
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: CD93

Alternative Name: CD93 ([CD93 Products](#))

Background: Protein Function: Receptor (or element of a larger receptor complex) for C1q, mannose-binding lectin (MBL2) and pulmonary surfactant protein A (SPA). May mediate the enhancement of phagocytosis in monocytes and macrophages upon interaction with soluble defense collagens. May play a role in intercellular adhesion.

Background: CD93 (Cluster of Differentiation 93) is a protein that in humans is encoded by the CD93 gene. CD93 belongs to the Group XIV C-Type lectin family and is mapped to 20p11.21.

The protein encoded by this gene is a cell-surface glycoprotein and type I membrane protein that was originally identified as a myeloid cell-specific marker. The encoded protein was once thought to be a receptor for C1q, but now is thought to instead be involved in intercellular adhesion and in the clearance of apoptotic cells. The intracellular cytoplasmic tail of this protein has been found to interact with moesin, a protein known to play a role in linking transmembrane proteins to the cytoskeleton and in the remodelling of the cytoskeleton. It has also showed that this receptor is a positive marker for all bone marrow-repopulating stem cells because it is expressed on both CD34-negative and CD34-positive stem cells from umbilical cord blood and adult bone marrow. In addition, highly purified lineage-negative cells with the CD93 protein not only have bone marrow-repopulating capacity but also can differentiate into human hepatocytes in vivo.

Synonyms: Complement component C1q receptor,C1q/MBL/SPA

receptor,C1qR,C1qR(p),C1qRp,CDw93,Complement component 1 q subcomponent receptor 1,Matrix-remodeling-associated protein 4,CD93,CD93,C1QR1, MXRA4,

Full Gene Name: Complement component C1q receptor

Cellular Localisation: Membrane, Single-pass type I membrane protein.

Gene ID: 22918

UniProt: [Q9NPY3](#)

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 C-type lectin domain. Tissue Specificity: Highly expressed in endothelial cells, platelets, cells of myeloid origin, such as monocytes and neutrophils. Not expressed in cells of lymphoid origin.
Plate:	Pre-coated
Protocol:	human CD93 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for CD93 has been precoated onto 96-well plates. Standards(NSO, A24-K580) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for CD93 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 CD93 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 313pg/mL, 156pg/mL, 78pg/mL human CD93 standard solutions into the pre-coated 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, plasma(heparin, EDTA), saliva or urine to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each human CD93 standard solution and each sample is measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(pg/ml): 634, Standard deviation: 33.6, CV(%): 5.3• Sample 2: n=16, Mean(pg/ml): 1493, Standard deviation: 92.6, CV(%): 6.2• Sample 3: n=16, Mean(pg/ml): 2436, Standard deviation: 107.2, CV(%): 4.4,• Sample 1: n=24, Mean(pg/ml): 572, Standard deviation: 38.9, CV(%): 6.8• Sample 2: n=24, Mean(pg/ml): 1620, Standard deviation: 121.5, CV(%): 7.5• Sample 3: n=24, Mean(pg/ml): 2864, Standard deviation: 160.4, CV(%): 5.6
Restrictions:	For Research Use only
Handling	
Handling Advice:	Avoid multiple freeze-thaw cycles.
Storage:	-20 °C,4 °C

Handling

Storage Comment:	Store at 4°C for 6 months, at -20°C for 12 months. Avoid multiple freeze-thaw cycles
Expiry Date:	12 months

Images

