

Datasheet for ABIN1672894

ICAM2 ELISA Kit



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Overview

Quantity:	96 tests
Target:	ICAM2
Binding Specificity:	AA 25-223
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	312-20000 pg/mL
Minimum Detection Limit:	312 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human ICAM-2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Tissue Homogenate, Serum, Plasma (heparin), Plasma (EDTA)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: K25-Q223
Specificity:	Expression system for standard: NSO Immunogen sequence: K25-Q223
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:	ICAM2
Alternative Name:	ICAM2 (ICAM2 Products)
Background:	<p>Protein Function: ICAM proteins are ligands for the leukocyte adhesion protein LFA-1 (integrin alpha-L/beta-2). ICAM2 may play a role in lymphocyte recirculation by blocking LFA-1-dependent cell adhesion. It mediates adhesive interactions important for antigen-specific immune response, NK-cell mediated clearance, lymphocyte recirculation, and other cellular interactions important for immune response and surveillance.</p> <p>Background: Intercellular adhesion molecule 2(ICAM2), also known as CD102(Cluster of Differentiation 102) is an integral membrane protein that has 2 immunoglobulin-like domains. This gene is mapped to 17q23.3. The protein encoded by this gene is a member of the intercellular adhesion molecule(ICAM) family. All ICAM proteins are type I transmembrane glycoproteins, contain 2-9 immunoglobulin-like C2-type domains, and bind to the leukocyte adhesion LFA-1 protein. This protein may play a role in lymphocyte recirculation by blocking LFA-1-dependent cell adhesion. It mediates adhesive interactions important for antigen-specific immune response, NK-cell mediated clearance, lymphocyte recirculation, and other cellular interactions important for immune response and surveillance.</p> <p>Synonyms: Intercellular adhesion molecule 2,ICAM-2,CD102,ICAM2,</p> <p>Full Gene Name: Intercellular adhesion molecule 2</p> <p>Cellular Localisation: Membrane, Single-pass type I membrane protein.</p>
Gene ID:	3384
UniProt:	P13598

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: Belongs to the immunoglobulin superfamily. ICAM family.

Application Details

Plate:	Pre-coated
Protocol:	human ICAM-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for ICAM-2 has been precoated onto 96-well plates. Standards(NSO, K25-Q223) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for ICAM-2 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 ICAM-2 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 20000pg/mL, 10000pg/mL, 5000pg/mL, 2500pg/mL, 1250pg/mL, 625pg/mL, 312pg/mL human ICAM-2 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, tissue homogenates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human ICAM-2 standard solution and each sample be measured in duplicate.
Assay Precision:	<ul style="list-style-type: none">• Sample 1: n=16, Mean(ng/ml): 1.56, Standard deviation: 0.066, CV(%): 4.2• Sample 2: n=16, Mean(ng/ml): 7.62, Standard deviation: 0.343, CV(%): 4.5• Sample 3: n=16, Mean(ng/ml): 13.3, Standard deviation: 0.705, CV(%): 5.3,• Sample 1: n=24, Mean(ng/ml): 1.36, Standard deviation: 0.078, CV(%): 5.7• Sample 2: n=24, Mean(ng/ml): 7.53, Standard deviation: 0.152, CV(%): 6.8• Sample 3: n=24, Mean(ng/ml): 14.8, Standard deviation: 1.11, CV(%): 7.5
Restrictions:	For Research Use only

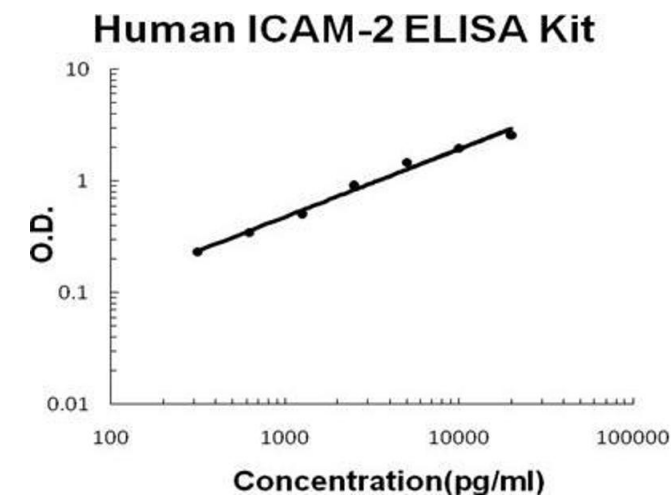
Handling

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

Publications

Product cited in:	Xu, Feng, Wang, Zhu, Lin, Lou, Xiang, He, Zheng, Tang, Zuo: "Phytoestrogen calycosin-7-O-?-D-
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glucopyranoside ameliorates advanced glycation end products-induced HUVEC damage." in:
Journal of cellular biochemistry, Vol. 112, Issue 10, pp. 2953-65, (2011) ([PubMed](#)).



ELISA

Image 1. Human ICAM-2 PicoKine ELISA Kit standard curve