

Datasheet for ABIN2859327
SPARCL1 ELISA Kit



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1 Image

Overview

Quantity:	96 tests
Target:	SPARCL1
Binding Specificity:	AA 17-664
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	46.9-3000 pg/mL
Minimum Detection Limit:	46.9 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human SPARCL1
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: I17-F664
Specificity:	Expression system for standard: NSO Immunogen sequence: I17-F664
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:	SPARCL1
Alternative Name:	SPARCL1 (SPARCL1 Products)
Background:	<p>Background: SPARCL1 (SPARC-Like Protein 1), also known as HEVIN, is a protein that in humans is encoded by the SPARCL1 gene. The cells in high endothelial venules (HEVs) in lymphoid tissues have a plump, almost cuboidal, appearance and support high levels of lymphocyte extravasation from blood, possibly due to the presence of desmosome-like junctions rather than tight junctions in the HEVs. In chronic inflammation, the activated endothelium of nonlymphoid tissues acquires an HEV-like morphology and function. SPARCL1 is highly expressed in HEV and is thought to contribute to the induction or maintenance of features of the HEV endothelium that facilitate lymphocyte migration.</p> <p>Synonyms: SPARC-like protein 1,High endothelial venule protein,Hevin,MAST 9,SPARCL1,</p> <p>Full Gene Name: SPARC-like protein 1</p> <p>Cellular Localisation: Secreted, extracellular space, extracellular matrix.</p>
Gene ID:	8404
UniProt:	Q14515

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:	<p>Sequence similarities: Belongs to the SPARC family.</p> <p>Tissue Specificity: Highly expressed in lymph node, brain, heart, lung, skeletal muscle, ovary, small intestine, and colon, with lower levels in placenta, pancreas, testis, spleen, and thymus, and no expression in kidney, liver, and peripheral blood leukocytes.</p>
Plate:	Pre-coated
Protocol:	human SPARCL1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent

Application Details

assay technology. A monoclonal antibody from mouse specific for SPARCL1 has been precoated onto 96-well plates. Standards(NSO, I17-F664) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for SPARCL1 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 SPARCL1 amount of sample captured in plate.

Assay Procedure: Aliquot 0.1 mL per well of the 3000pg/mL, 1500pg/mL, 750pg/mL, 375pg/mL, 188pg/mL, 94pg/mL, 46.9pg/mL human SPARCL1 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 or serum to each empty well. See "Sample Dilution Guideline" above for details. We recommend that each human SPARCL1 standard solution and each sample is measured in duplicate. 2. Seal the plate with the cover and incubate at 37 °C for 90 min.

Assay Precision:

- Sample 1: n=16, Mean(pg/ml): 269, Standard deviation: 11.03, CV(%): 4.1
- Sample 2: n=16, Mean(pg/ml): 1195, Standard deviation: 57.36, CV(%): 4.8
- Sample 3: n=16, Mean(pg/ml): 2030, Standard deviation: 105.6, CV(%): 5.2,
- Sample 1: n=24, Mean(pg/ml): 321, Standard deviation: 18.3, CV(%): 5.7
- Sample 2: n=24, Mean(pg/ml): 1254, Standard deviation: 79, CV(%): 6.3
- Sample 3: n=24, Mean(pg/ml): 2208, Standard deviation: 167.8, CV(%): 7.6

Restrictions: For Research Use only

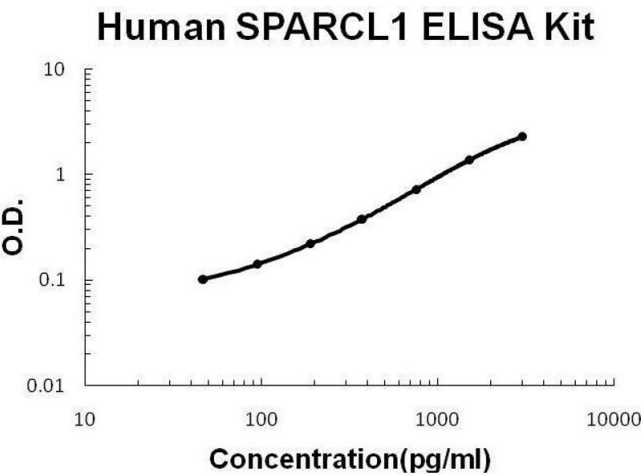
Handling

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



ELISA

Image 1. Human SPARCL1 PicoKine ELISA Kit standard curve