Datasheet for ABIN1889392

F11R ELISA Kit

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Overview

Quantity:	96 tests
Target:	F11R
Binding Specificity:	AA 27-238
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	31.2-2000 pg/mL
Minimum Detection Limit:	31.2 pg/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse JAM-A/F11R
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: K27-G238
Specificity:	Expression system for standard: NSO Immunogen sequence: K27-G238
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:	F11R
Alternative Name:	F11R (F11R Products)
Background:	Protein Function: Seems to play a role in epithelial tight junction formation. Appears early in primordial forms of cell junctions and recruits PARD3. The association of the PARD6-PARD3 complex may prevent the interaction of PARD3 with JAM1, thereby preventing tight junction assembly. Plays a role in regulating monocyte transmigration involved in integrity of epithelial barrier. Involved in platelet activation. In case of orthoreovirus infection, serves as receptor for the virus (By similarity). . Background: Junctional adhesion molecule A(JAM-A) is a protein that in humans is encoded by the F11R gene. It is mapped to 1q23.3. This gene is an immunoglobulin-like molecule that colocalizes with tight junctions in endothelium and epithelium and is also found on blood leukocytes and platelets. JAM-A plays an important role in the regulation of tight junction assembly in epithelia. In addition, it can act as a receptor for reovirus, a ligand for the integrin LFA1, involved in leukocyte transmigration, and a platelet receptor. JAM-A has a nonredundant role in controlling DC motility, trafficking to lymph nodes, and activation of specific immunity. Synonyms: Junctional adhesion molecule A,JAM-A,Junctional adhesion molecule 1,JAM-1,CD321,F11r,Jam1, Jcam, Jcam1, Full Gene Name: Junctional adhesion molecule A Cellular Localisation: Cell junction, tight junction . Cell membrane, Single-pass type I membrane protein . Localized at tight junctions of both epithelial and endothelial cells.
Gene ID:	16456
UniProt:	O88792
Pathways:	Cell-Cell Junction Organization

Application Details

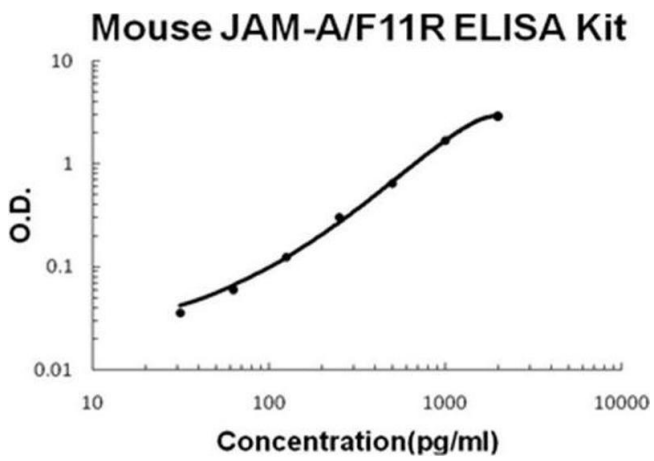
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well

Application Details

	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the immunoglobulin superfamily.
Plate:	Pre-coated
Protocol:	mouse JAM-A ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from rat specific for JAM-A has been precoated onto 96-well plates. Standards(NSO, K27-G238) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for JAM-A 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 mouse JAM-A amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL, 125pg/mL, 62.5pg/mL, 31.2pg/mL mouse JAM-A 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 mouse cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each mouse JAM-A standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(pg/ml): 279, Standard deviation: 14.51, CV(%): 5.2 • Sample 2: n=16, Mean(pg/ml): 681, Standard deviation: 44.95, CV(%): 6.6 • Sample 3: n=16, Mean(pg/ml): 1177, Standard deviation: 51.8, CV(%): 4.4, • Sample 1: n=24, Mean(pg/ml): 326, Standard deviation: 18.6, CV(%): 5.7 • Sample 2: n=24, Mean(pg/ml): 814, Standard deviation: 61.9, CV(%): 7.6 • Sample 3: n=24, Mean(pg/ml): 1347, Standard deviation: 79.5, CV(%): 5.9
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. Mouse JAM-A/F11R PicoKine ELISA Kit standard curve