

Datasheet for ABIN1889365

MFGE8 ELISA Kit





Overview

Quantity:	96 tests
Target:	MFGE8
Binding Specificity:	AA 23-463
Reactivity:	Mouse
Method Type:	Sandwich ELISA
Detection Range:	62.5-4000 pg/mL
Minimum Detection Limit:	62.5 pg/mL
Application:	ELISA

Product Details

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Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Mouse MFGE8/Lactadherin	
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: A23-C463	
Specificity:	Expression system for standard: NSO Immunogen sequence: A23-C463	
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.	

Product Details

Pathways:

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:	MFGE8
Alternative Name:	MFGE8 (MFGE8 Products)
Background:	Protein Function: Contributes to phagocytic removal of apoptotic cells in many tissues. Specific
	ligand for the alpha-v/beta-3 and alpha- v/beta-5 receptors. Also binds to phosphatidylserine-
	enriched cell surfaces in a receptor-independent manner. Zona pellucida-binding protein which
	may play a role in gamete interaction (By similarity). Plays an important role in the maintenance
	of intestinal epithelial homeostasis and the promotion of mucosal healing. Promotes VEGF-
	dependent neovascularization
	Background: MFGE8(Milk Fat Globule-Egf Factor 8), also called as Lactadherin or SED1, is a
	protein which in humans is encoded by the MFGE8 gene. Mfge8 is secreted protein found in
	vertebrates, including mammals as well as birds. By fluorescence in situ hybridization, the
	MFGE8 gene was mapped to chromosome 15q25. MFGE8 is a factor that links apoptotic cells
	to phagocytes. It specifically bound to apoptotic cells by recognizing aminophospholipids such
	as phosphatidylserine. MFGE8, when engaged by phospholipids, bound to cells via its RGD
	motif. It bound particularly strongly to cells expressing alpha-V-beta-3 integrin. It showed that
	Mfge8 was expressed in intestinal lamina propria macrophages in mice. Using a wound-healing
	assay, they showed that Mfge8 promoted migration of intestinal epithelial cells through a PKC-
	epsilon(PRKCE)-dependent mechanism.
	Synonyms: Lactadherin,MFGM,Milk fat globule-EGF factor 8,MFG-E8,SED1,Sperm surface
	protein SP47,MP47,Mfge8,
	Full Gene Name: Lactadherin
	Cellular Localisation: Membrane, Peripheral membrane protein . Secreted.
Gene ID:	17304
UniProt:	P21956

SARS-CoV-2 Protein Interactome

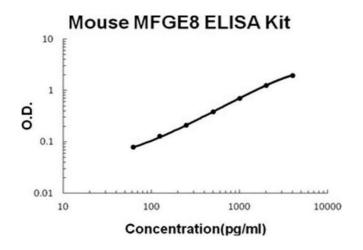
Application Details

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 EGF-like domains.
	Tissue Specificity: Mammary epithelial cell surfaces and spermatozoan. Isoform 2 is present in
	brain, heart, kidney and spleen and at low levels in lung, liver, small intestine and testis
Plate:	Pre-coated
Protocol:	mouse MFGE8 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from rat specific for MFGE8 has been precoated
	onto 96-well plates. Standards(NSO, A23-C463) and test samples are added to the wells, a
	biotinylated detection polyclonal antibody from goat specific for MFGE8 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 MFGE8 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 4000pg/mL, 2000pg/mL, 1000pg/mL, 500pg/mL, 250pg/mL,
	125pg/mL, 62.5pg/mL mouse MFGE8 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 MFGE8 standard solution and each sample be measured in duplicate.
Assay Precision:	Sample 1: n=16, Mean(pg/ml): 528, Standard deviation: 22.2, CV(%): 4.2
	 Sample 2: n=16, Mean(pg/ml): 1467, Standard deviation: 73.35, CV(%): 5
	• Sample 3: n=16, Mean(pg/ml): 2375, Standard deviation: 116.4, CV(%): 4.9,
	• Sample 1: n=24, Mean(pg/ml): 621, Standard deviation: 37.9, CV(%): 6.1
	 Sample 2: n=24, Mean(pg/ml): 1623, Standard deviation: 113.6, CV(%): 7 Sample 3: n=24, Mean(pg/ml): 2644, Standard deviation: 153.4, CV(%): 5.8
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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

Images



ELISA

Image 1. Mouse MFGE8/Lactadherin PicoKine ELISA Kit standard curve