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Datasheet for ABIN1889408 FCN1 ELISA Kit

Image



Overview

Quantity:	96 tests
Target:	FCN1
Binding Specificity:	AA 30-326
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.78-50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Ficolin-1
PicoKine™
Cell Culture Supernatant, Serum, Plasma (heparin)
Quantitative
Colorimetric
Expression system for standard: NSO Immunogen sequence: A30-A326
Expression system for standard: NSO Immunogen sequence: A30-A326
There is no detectable cross-reactivity with other relevant proteins.

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Product Details

Sensitivity:	<20pg/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:	FCN1			
Alternative Name:	FCN1 (FCN1 Products)			
Background:	Protein Function: Extracellular lectin functioning as a pattern- recognition receptor in innate			
	immunity. Binds the sugar moieties of pathogen-associated molecular patterns (PAMPs)			
	displayed on microbes and activates the lectin pathway of the complement system. May also			
	activate monocytes through a G protein-coupled receptor, FFAR2, inducing the secretion of			
	interleukin-8/IL-8 (PubMed:21037097). Binds preferentially to 9-0-acetylated 2-6- linked sialic			
	acid derivatives and to various glycans containing sialic acid engaged in a 2-3 linkage			
	Background: Ficolin-1, and also commonly termed M-ficolin is a protein that in humans is			
	encoded by the FCN1 gene. It is mapped to 9q34.3. The ficolin family of proteins are			
	characterized by the presence of a leader peptide, a short N-terminal segment, followed by a			
	collagen-like region, and a C-terminal fibrinogen-like domain. Ficolins have a crucial role in			
	defense against pneumococcal infection through the lectin complement pathway. Ficolin 1 is			
	predominantly expressed in the peripheral blood leukocytes, and has been postulated to			
	function as a plasma protein with elastin-binding activity.			
	Synonyms: Ficolin-1,Collagen/fibrinogen domain-containing protein 1,Ficolin-A,Ficolin-alpha,M-			
	ficolin,FCN1,FCNM,			
	Full Gene Name: Ficolin-1			
	Cellular Localisation: Secreted. Cell membrane, Peripheral membrane protein, Extracellular side			
	Found on the monocyte and granulocyte surface.			
Gene ID:	2219			
UniProt:	000602			
Pathways:	Complement System			
Application Details				
Application Notes:	Before using Kit, spin tubes and bring down all components to bottom of tube. Duplicate well			

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Application Details	
	assay was recommended for both standard and sample testing.
Comment:	Sequence similarities: Belongs to the ficolin lectin family.
	Tissue Specificity: Peripheral blood leukocytes, monocytes and granulocytes. Also detected in
	spleen, lung, and thymus, may be due to the presence of tissue macrophages or trapped blood
	in these tissues. Not detected on lymphocytes
Plate:	Pre-coated
Protocol:	human Ficolin-1 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent
	assay technology. A monoclonal antibody from mouse specific for Ficolin-1 has been
	precoated onto 96-well plates. Standards(NSO, A30-A326) and test samples are added to the
	wells, a biotinylated detection polyclonal antibody from goat specific for Ficolin-1 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 Ficolin-1 amount of sample captured in plate.
Assay Procedure:	Aliquot 0.1 mL per well of the 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL, 3.12 ng/mL,
	1.56 ng/mL, 0.78 ng/mL human Ficolin-1 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, serum or plasma(heparin) to each
	empty well. See "Sample Dilution Guideline" above for details. It is recommended that each
	human Ficolin-1 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 4.83, Standard deviation: 0.188, CV(%): 3.9
	• Sample 2: n=16, Mean(ng/ml): 13.2, Standard deviation: 0.581, CV(%): 4.4
	 Sample 3: n=16, Mean(ng/ml): 25.1, Standard deviation: 1.431, CV(%): 5.7, Sample 1: n= 24, Mean (ng/ml): 5.24, Standard deviation: 0.202, OV(%): 7.5
	 Sample 1: n=24, Mean(ng/ml): 5.24, Standard deviation: 0.393, CV(%): 7.5 Sample 2: n=24, Mean(ng/ml): 12.9, Standard deviation: 0.890, CV(%): 6.9
	 Sample 2: n=24, Mean(ng/ml): 25.9, Standard deviation: 1.89, CV(%): 7.3
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

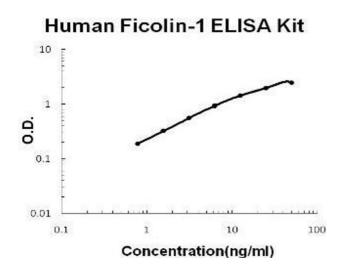
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Expiry Date:

12 months

Images



EL	ISA	

Image 1. Human Ficolin-1 PicoKine ELISA Kit standard curve

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