Datasheet for ABIN1889409
Ficolin 2 ELISA Kit

1	Image

Overview

Quantity:	96 tests
Target:	Ficolin 2 (FCN2)
Binding Specificity:	AA 26-313
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	0.78-50 ng/mL
Minimum Detection Limit:	0.78 ng/mL
Application:	ELISA

Product Details

Purpose:	Sandwich High Sensitivity ELISA kit for Quantitative Detection of Human Ficolin-2
Brand:	PicoKine™
Sample Type:	Cell Culture Supernatant, Serum, Plasma (heparin)
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Immunogen:	Expression system for standard: NSO Immunogen sequence: L26-A313
Specificity:	Expression system for standard: NSO Immunogen sequence: L26-A313
Cross-Reactivity (Details):	There is no detectable cross-reactivity with other relevant proteins.

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:	Ficolin 2 (FCN2)
Alternative Name:	FCN2 (FCN2 Products)
Background:	Protein Function: May function in innate immunity through activation of the lectin complement pathway. Calcium-dependent and GlcNAc- binding lectin. Enhances phagocytosis of S.typhimurium by neutrophils, suggesting an opsonic effect via the collagen region. . Background: Ficolin-2, which was initially identified as L-ficolin, is a protein that in humans is encoded by the FCN2 gene. The product of this gene belongs to the ficolin family of proteins. This family is 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. It is mapped to 9q34.3. This gene is predominantly expressed in the liver, and has been shown to have carbohydrate binding and opsonic activities. Serum concentration of ficolin-2 varies considerably in healthy individuals. FCN2 promoter polymorphisms were associated with marked changes in theficolin-2 serum concentration. Synonyms: Ficolin-2,37 kDa elastin-binding protein,Collagen/fibrinogen domain-containing protein 2,EBP-37,Ficolin-B,Ficolin-beta,Hucolin,L-ficolin,Serum lectin p35,FCN2,FCNL, Full Gene Name: Ficolin-2 Cellular Localisation: Secreted.
Gene ID:	2220
UniProt:	Q15485
Pathways:	Complement System

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 ficolin lectin family.

Application Details

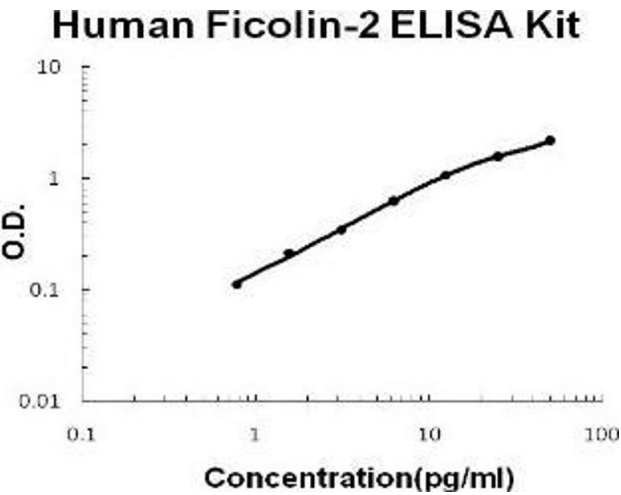|	
	Tissue Specificity: Expressed by the liver and secreted in plasma.
Plate:	Pre-coated
Protocol:	human Ficolin-2 ELISA Kit was based on standard sandwich enzyme-linked immune-sorbent assay technology. A monoclonal antibody from mouse specific for Ficolin-2 has been precoated onto 96-well plates. Standards(NSO, L26-A313) and test samples are added to the wells, a biotinylated detection polyclonal antibody from goat specific for Ficolin-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 Ficolin-2 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-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, serum or plasma(heparin) to each empty well. See "Sample Dilution Guideline" above for details. It is recommended that each human Ficolin-2 standard solution and each sample be measured in duplicate.
Assay Precision:	• Sample 1: n=16, Mean(ng/ml): 4.78, Standard deviation: 0.186, CV(%): 3.9 • Sample 2: n=16, Mean(ng/ml): 12.7, Standard deviation: 0.648, CV(%): 5.1 • Sample 3: n=16, Mean(ng/ml): 24.1, Standard deviation: 1.11, CV(%): 4.6, • Sample 1: n=24, Mean(ng/ml): 5.14, Standard deviation: 0.298, CV(%): 5.8 • Sample 2: n=24, Mean(ng/ml): 13.2, Standard deviation: 0.99, CV(%): 7.5 • Sample 3: n=24, Mean(ng/ml): 25.7, Standard deviation: 1.62, CV(%): 6.3
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
Expiry Date:	12 months

Images

Human Ficolin-2 ELISA Kit

ELISA

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