10320 Camino Santa Fe, Suite A
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

FCN1 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP17029B

Specification

FCN1 Antibody (C-term) - Product Information

Application	**WB,E**
Primary Accession	O00602
Other Accession	NP_001994.2
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**35078**
Antigen Region	**239-267**

FCN1 Antibody (C-term) - Additional Information

Gene ID 2219

Other Names
Ficolin-1, Collagen/fibrinogen domain-containing protein 1, Ficolin-A, Ficolin-alpha, M-ficolin, FCN1, FCNM

Target/Specificity
This FCN1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 239-267 amino acids from the C-terminal region of human FCN1.

Dilution
WB~~1:1000
E~~Use at an assay dependent concentration.

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
FCN1 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

FCN1 Antibody (C-term) - Protein Information

Name FCN1 (HGNC:3623)

Synonyms FCNM

Function Extracellular lectin, which acts as a pattern recognition receptor that initiates the lectin pathway of the complement system, a cascade of proteins that leads to phagocytosis and breakdown of pathogens and signaling that strengthens the adaptive immune system (PubMed:16116205, PubMed:17897951, PubMed:20032467). Specifically recognizes and binds carbohydrates on the pathogen surface, activating the MASP1 serine protease and initiating the proteolytic cascade of the lectin complement pathway (PubMed:16116205, PubMed:20032467). Binds preferentially to 9-O-acetylated 2-6-linked sialic acid derivatives and to various glycans containing sialic acid engaged in a 2-3 linkage (PubMed:20032467, PubMed:20400674). May also activate monocytes through a G protein-coupled receptor, FFAR2, inducing the secretion of interleukin-8/IL-8 (PubMed:21037097).

Cellular Location
Secreted. Cell surface. Note=Specifically binds carbohydrates on the surface of pathogens (PubMed:16116205). Found on the monocyte and granulocyte surface (PubMed:20400674).

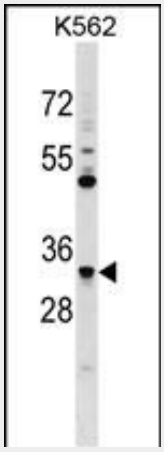
Tissue Location
Peripheral blood leukocytes, monocytes and granulocytes. Also detected in spleen, lung, and thymus, may be due to the presence of tissue macrophages or trapped blood in these tissues Not detected on lymphocytes.

FCN1 Antibody (C-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

FCN1 Antibody (C-term) - Images



FCN1 Antibody (C-term) (Cat. #AP17029b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the FCN1 antibody detected the FCN1 protein (arrow).

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FCN1 Antibody (C-term) - Background

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. The collagen-like and the fibrinogen-like domains are also found separately in other proteins such as complement protein C1q, C-type lectins known as collectins, and tenascins. However, all these proteins recognize different targets, and are functionally distinct. Ficolin 1 encoded by FCN1 is predominantly expressed in the peripheral blood leukocytes, and has been postulated to function as a plasma protein with elastin-binding activity.

FCN1 Antibody (C-term) - References

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