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FCN3 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP12561b

Product Information

Application	WB, IHC-P, FC, E
Primary Accession	O75636
Other Accession	NP_775628.1, NP_003656.2
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB31101
Calculated MW	32903
Antigen Region	214-243

Additional Information

Gene ID	8547
Other Names	Ficolin-3, Collagen/fibrinogen domain-containing lectin 3 p35, Collagen/fibrinogen domain-containing protein 3, Hakata antigen, FCN3, FCNH, HAKA1
Target/Specificity	This FCN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 214-243 amino acids from the C-terminal region of human FCN3.
Dilution	WB~~1:500 IHC-P~~1:100~500 FC~~1:10~50 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	FCN3 Antibody (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	FCN3
Synonyms	FCNH, HAKA1

Function	May function in innate immunity through activation of the lectin complement pathway. Calcium-dependent and GlcNAc-binding lectin. Has affinity with GalNAc, GlcNAc, D-fucose, as mono/oligosaccharide and lipopolysaccharides from S.typhimurium and S.minnesota.
Cellular Location	Secreted. Note=Found in blood plasma, bronchus, alveolus and bile duct
Tissue Location	Liver and lung. In liver it is produced by bile duct epithelial cells and hepatocytes. In lung it is produced by both ciliated bronchial epithelial cells and type II alveolar epithelial cells.

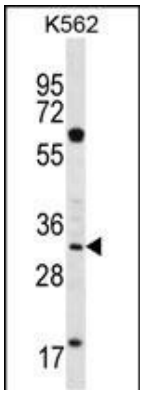
Background

Ficolins are a group of proteins which consist of a collagen-like domain and a fibrinogen-like domain. In human serum, there are two types of ficolins, both of which have lectin activity. The protein encoded by this gene is a thermolabile beta-2-macroglycoprotein found in all human serum and is a member of the ficolin/opsonin p35 lectin family. The protein, which was initially identified based on its reactivity with sera from patients with systemic lupus erythematosus, has been shown to have a calcium-independent lectin activity. The protein can activate the complement pathway in association with MASPs and sMAP, thereby aiding in host defense through the activation of the lectin pathway. Alternative splicing occurs at this locus and two variants, each encoding a distinct isoform, have been identified.

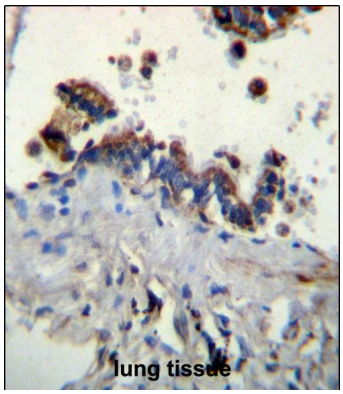
References

Davila, S., et al. Genes Immun. 11(3):232-238(2010)
Andersen, T., et al. J. Rheumatol. 36(4):757-759(2009)
Ruskamp, J.M., et al. Clin. Exp. Immunol. 155(3):433-440(2009)
Lacroix, M., et al. J. Immunol. 182(1):456-465(2009)
Munthe-Fog, L., et al. Mol. Immunol. 45(9):2660-2666(2008)

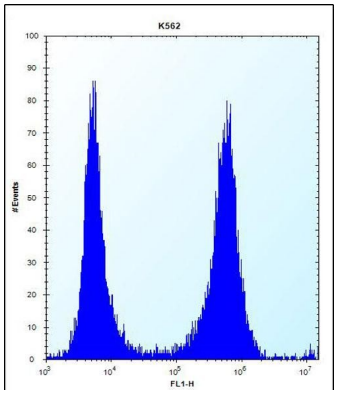
Images



FCN3 Antibody (C-term) (Cat. #AP12561b) western blot analysis in K562 cell line lysates (35ug/lane).This demonstrates the FCN3 antibody detected the FCN3 protein (arrow).



FCN3 Antibody (C-term) (Cat. #AP12561b)immunohistochemistry analysis in formalin fixed and paraffin embedded human lung tissue followed by peroxidase conjugation of the secondary antibody and DAB staining.This data demonstrates the use of FCN3 Antibody (C-term) for immunohistochemistry. Clinical relevance has not been evaluated.



FCN3 Antibody (C-term) (Cat. #AP12561b) flow cytometric analysis of K562 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated donkey-anti-rabbit secondary antibodies were used for the analysis.