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Ficolin 2 Rabbit pAb

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Catalog # AP55076

Product Information

Application	WB
Primary Accession	Q15485
Reactivity	Human
Predicted	Rat, Mouse
Host	Rabbit
Clonality	Polyclonal
Calculated MW	34001
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human Ficolin 2/Ficolin B
Epitope Specificity	231-313/313
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SUBCELLULAR LOCATION	Secreted.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Ficolin B is the designation in mouse and rat of a protein also known as L-ficolin, ficolin-2, collagen/fibrinogen domain-containing protein 2, serum lectin p35, EBP-37 or hucolin. Ficolin B is a 313 amino acid member of the ficolin lectin family. It is a secreted innate immunity pattern recognition molecule expressed in liver and plasma that forms a disulfide-linked homopolymer. This extensive N-terminal disulfide bridge formation can lead to a functional dodecamer polypeptide. Ficolin B binds to DNA ligands expressed by late apoptotic and necrotic cells to increase attachment and engulfment. Variation in ficolin B concentrations amongst individuals is associated with polymorphisms in the promoter and structural portion of the FCN2 gene. In patients with Beh □t's disease (BD), there exists a significant difference in allele frequency for FCN2 gene single nucleotide polymorphisms (SNPs) within the -557 and -64 promoter sites within HLA-B51 positive and HLA-B51 negative subgroups.

Additional Information

Gene ID	2220
Other Names	Ficolin-2, 37 kDa elastin-binding protein, EBP-37, Collagen/fibrinogen domain-containing protein 2, Ficolin-B, Ficolin-beta, Hucolin, L-ficolin, Serum lectin p35, FCN2 (HGNC:3624), FCNL
Dilution	WB=1:500-2000

Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

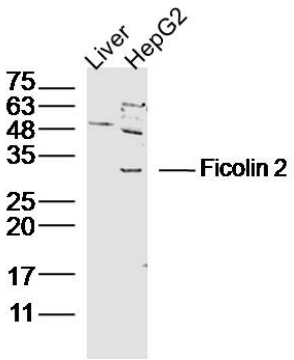
Protein Information

Name	FCN2 (HGNC:3624)
Synonyms	FCNL
Function	Calcium-dependent 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:10679061, PubMed:14707097, PubMed:15804047, PubMed:17215869, PubMed:25344472, PubMed:8576206). 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:14707097). Specifically binds N- Acetylglucosamine (GlcNAc), as well as phosphocholine and lipoteichoic acid moieties on the surface of pathogens (PubMed:14707097, PubMed:17215869, PubMed:25344472, PubMed:8576206). Enhances phagocytosis of S.typhimurium by neutrophils, suggesting an opsonic effect (PubMed:8576206).
Cellular Location	Secreted. Cell surface. Note=Specifically binds carbohydrates on the surface of pathogens.
Tissue Location	Expressed by the liver and secreted in plasma.

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Images



Sample:
Liver (Mouse) Lysate at 40 ug
HepG2 (human) Lysate at 40 ug
Primary: Anti- Ficolin 2 (AP55076)at 1/300 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 31kD
Observed band size: 31kD

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.