

LBP Rabbit pAb

Catalog # AP99935

Product Information

Application	WB, IHC-P, IHC-F, IF, E
Primary Accession	P18428
Other Accession	P18428
Host	Rabbit
Clonality	Polyclonal
Calculated MW	53384
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LBP
Epitope Specificity	401-481/481
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the BPI/LBP/Plunc superfamily. BPI/LBP family.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	The protein encoded by this gene is involved in the acute-phase immunologic response to gram-negative bacterial infections. Gram-negative bacteria contain a glycolipid, lipopolysaccharide (LPS), on their outer cell wall. Together with bactericidal permeability-increasing protein (BPI), the encoded protein binds LPS and interacts with the CD14 receptor, probably playing a role in regulating LPS-dependent monocyte responses. Studies in mice suggest that the encoded protein is necessary for the rapid acute-phase response to LPS but not for the clearance of LPS from circulation. This protein is part of a family of structurally and functionally related proteins, including BPI, plasma cholesteryl ester transfer protein (CETP), and phospholipid transfer protein (PLTP). [provided by RefSeq, Apr 2012]

Additional Information

Gene ID	3929
Other Names	BPIFD2; LBP_HUMAN; LBP; lipopolysaccharide binding protein; lipopolysaccharide-binding protein; BPI fold containing family D, member 2
Dilution	WB=1:500-2000,IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:5000-10000
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	LBP
Function	Plays a role in the innate immune response. Binds to the lipid A moiety of bacterial lipopolysaccharides (LPS), a glycolipid present in the outer membrane of all Gram-negative bacteria (PubMed: 24120359 , PubMed: 7517398). Acts as an affinity enhancer for CD14, facilitating its association with LPS. Promotes the release of cytokines in response to bacterial lipopolysaccharide (PubMed: 24120359 , PubMed: 7517398).
Cellular Location	Secreted. Cytoplasmic granule membrane {ECO:0000250 UniProtKB:P17213}. Note=Membrane- associated in polymorphonuclear Leukocytes (PMN) granules {ECO:0000250 UniProtKB:P17213}
Tissue Location	Detected in blood serum (at protein level).

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