Recombinant Human LBP

Cat. No. LBP-29046TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human LBP with N terminal proprietary tag, 75.83kDa.
Species	Human
Source	Wheat Germ
ProteinLength	452 amino acids
Description	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). Finally, this gene is found on chromosome 20, immediately downstream of the BPI gene.
Molecular Weight	75.830kDa inclusive of tags
Form	Liquid
Purity	Proprietary Purification

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Storage buffer	pH: 8.00Constituents:0.3% Glutathione, 0.79% Tris HCl
Storage	Shipped on dry ice. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	ANPGLVARITDKGLQYAAQEGLLALQSELLRITLPDFTGD LRIPHVGRGRYEFHSLNI HSCELLHSALRPVPGQGLSLSI SDSSIRVQGRWKVRKSFFKLQGSFDVSVKGISISV DLLLG SESSGRPTVTASSCSSDIADVEVDMSGDLGWLLNLFHNQI ESKFQKVLESRI CEMIQKSVSSDLQPYLQTLPVTTEIDSF ADIDYSLVEAPRATAQMLEVMFKGEIFHRN HRSPVTLLAA VMSLPEEHNKMVYFAISDYVFNTASLVYHEEGYLNFSITD DMIPPDS NIRLTTKSFRPFVPRLARLYPNMNLELQGSVPS APLLNFSPGNLSVDPYMEIDAFVLL PSSSKEPVFRLSVAT NVSATLTFNTSKITGFLKPGKVKVELKESKVGLFNAELLE ALL NYYILNTFYPKFNDKLAEGFPLPLLKRVQLYDLGLQI HKDFPSRRDHPP
Sequence Similarities	Belongs to the BPI/LBP/Plunc superfamily. BPI/LBP family.

GENE INFORMATION

Gene Name	LBP lipopolysaccharide binding protein [Homo sapiens]
Official Symbol	LBP
Synonyms	LBP; lipopolysaccharide binding protein; lipopolysaccharide-binding protein; BPI fold containing family D; member 2; BPIFD2;
Gene ID	3929
mRNA Refseq	NM_004139
Protein Refseq	NP_004130

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MIM	151990
Uniprot ID	P18428
Chromosome Location	20q11.23
Pathway	IL6-mediated signaling events, organism-specific biosystem; Immune System, organism-specific biosystem; Innate Immune System, organism-specific biosystem; LPS transferred from LBP carrier to CD14, organism-specific biosystem; Salmonella infection, organism-specific biosystem;
Function	Gram-negative bacterial cell surface binding; Gram-negative bacterial cell surface binding; Gram-positive bacterial cell surface binding; cell surface binding; lipid binding;

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