

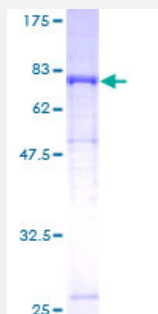
Full-Length

LBP (Human) Recombinant Protein (P01)

Catalog # H00003929-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human LBP full-length ORF (AAH22256, 26 a.a. - 477 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

ANPGLVARITDKGLQYAAQEGLLALQSELLRITLPDFTGDLRIPHVGRGRYEFHSLNIHSCCELLHSAL
RPVPGQGLSLSISDSSIRVQGRWKVRKSFFKLQGSFDVSVKGISISVDLLGSESSGRPTVTASS
CSSDIADVEVDMSGDLGWLLNLFHNQIESKFQKVLESRICEMIQKSVSSDLQPYLQTLPTTEIDS
FADIDYSLVEAPRATAQMLEVMFKGEIFHRNHRSPVTLLAAVMSLPEEHNKMVYFAISDYVFNTAS
LVYHEEGYLNFSITDDMIPPDSNIRLTTSFRPFVPRLARLYPNMNLELQGSVPSAPLLNFSPGNLS
VDPYMEIDAFVLLPSSSKEPVFRLSVATNVSATLTFNTSKITGFLKPGKVVELKESKVGLFNAEL
LEALLNYYILNTFYPKFNDKLAEGFPLPLLKRVQLYDLGLQIHKDFPSRRDHPP

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

75.46

Interspecies Antigen Sequence

Mouse (69); Rat (69)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — LBP

Entrez GeneID	3929
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GeneBank Accession#	BC022256
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Protein Accession#	AAH22256
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Gene Name	LBP
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Gene Alias	MGC22233
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Gene Description	lipopolysaccharide binding protein
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Omim ID	151990
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Gene Ontology	Hyperlink
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Gene Summary	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. [provided by RefSeq]
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Other Designations

LPS-binding protein|OTTHUMP00000030965|lipopolysaccharide-binding protein

Publication Reference

- [Adipokines and Endotoxemia Correlate with Hepatic Steatosis in Non-Alcoholic Fatty Liver Disease \(NAFLD\).](#)

Anika Nier, Yvonne Huber, Christian Labenz, Maurice Michel, Ina Bergheim, Jörn M Schattenberg.

Nutrients 2020 Mar; 12(3):E699.

Application: ELISA, Human, As a standard

- [Early life stress induces type 2 diabetes-like features in ageing mice.](#)

Ilchmann-Diounou H, Olier M, Lencina C, Riba A, Barretto S, Nankap M, Sommer C, Guillou H, Ellero-Simatos S, Guzyłack-Piriou L, Théodorou V, Ménard S.

Brain, Behavior, and Immunity 2019 Aug; 80:452.

Application: ELISA, Mouse, Mouse plasma

- [Metabolic Abnormalities in Normal Weight Children Are Associated with Increased Visceral Fat Accumulation, Elevated Plasma Endotoxin Levels and a Higher Monosaccharide Intake.](#)

Nier A, Brandt A, Baumann A, Conzelmann IB, Özel Y, Bergheim I.

Nutrients 2019 Mar; 11(3):E652.

Application: ELISA, Human, Human plasma

- [Short-Term Isocaloric Intake of a Fructose- but not Glucose-Rich Diet Affects Bacterial Endotoxin Concentrations and Markers of Metabolic Health in Normal Weight Healthy Subjects.](#)

Nier A, Brandt A, Rajcic D, Bruns T, Bergheim I.

Molecular Nutrition & Food Research 2019 Mar; 63(6):e1800868.

Application: ELISA, Human, As a standard, Human plasma

- [Non-Alcoholic Fatty Liver Disease in Overweight Children: Role of Fructose Intake and Dietary Pattern.](#)

Nier A, Brandt A, Conzelmann IB, Özel Y, Bergheim I.

Nutrients 2018 Sep; 10(9):E1329.

Application: ELISA, Human, Plasma

- [Splenectomy protects aged mice from injury after experimental stroke.](#)

Chauhan A, Al Mamun A, Spiegel G, Harris N, Zhu L, McCullough LD.

Neurobiology of Aging 2017 Sep; 61:102.

Application: ELISA, Human, Mouse plasma

- [Necro-inflammatory response of pancreatic acinar cells in the pathogenesis of acute alcoholic pancreatitis.](#)

Gu H, Werner J, Bergmann F, Whitcomb DC, Buchler MW, Fortunato F.

Cell Death & Disease 2013 Oct; 4:e816.

Application: Added, Recombinant protein

- [Induction of a microbicidal protein psoriasin \(S100A7\), and its stimulatory effects on normal human keratinocytes.](#)

Niyonsaba F, Hattori F, Maeyama K, Ogawa H, Okamoto K.

Journal of Dermatological Science 2008 Aug; 52(3):216.

Application: Func, Human, Normal human keratinocytes

Pathway

- [Toll-like receptor signaling pathway](#)

Disease

- [Atherosclerosis](#)
- [Birth Weight](#)
- [Cardiovascular Diseases](#)
- [Crohn Disease](#)
- [Diabetes Mellitus](#)
- [Edema](#)
- [Endocarditis](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Gram-Negative Bacterial Infections](#)
- [Leukemia](#)
- [Liver Cirrhosis](#)

- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Myocardial Infarction](#)
- [Neutropenia](#)
- [Pregnancy Complications](#)
- [Sepsis](#)
- [Staphylococcal Infections](#)
- [Tobacco Use Disorder](#)
- [Vaginosis](#)
- [Wounds and Injuries](#)