LBP (Human) ELISA Kit

Catalog # KA0448 Size 1 Kit

Specification

Product Description	LBP (Human) ELISA Kit is a sandwich enzyme immunoassay for the quantitative measurement of human LBP.
Suitable Sample	Plasma, Serum and other human LBP containing solutions
Sample Volume	100 uL
Label	POD-conjugate
Detection Method	Colorimetric
Assay Type	Quantitative
Calibration Range	1.5 to 50 ng/mL
Reactivity	Human
Regulation Status	For research use only (RUO)
Storage Instruction	Store the kit at -20°C. For best results, please store the components as described in the protocol. Avoid repeated freezing and thawing.

Applications

- Quantification

Gene Info — LBP

Entrez GeneID	3929
Gene Name	LBP
Gene Alias	MGC22233

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Gene Description	lipopolysaccharide binding protein
Omim ID	151990
Gene Ontology	Hyperlink
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
Other Designations	LPS-binding protein|OTTHUMP00000030965|lipopolysaccharide-binding protein

Publication Reference

- Association between dietary polyphenol intake and polyphenol-utilizing bacteria in healthy adults.

  Stephanie M G Wilson, Andrew Oliver, Zeynep Alkan, Bhimanagouda S Patil, Mary E Kable, Danielle G Lemay

  Food Funct 2026 6; 0:0.

- Longitudinal Assessment of Biomarkers in ALS: Discriminative Biomarkers for Disease Progression and Survival.

  David R Beers, Yueh-Yun Lin, Jason R Thonhoff, Aaron D Thome, Alireza Faridar, Weihua Zhao, Shixiang Wen, Stanley H Appel.

  Annals of clinical and translational neurology 2026 Apr; [Epub]:0.

  Application: Quant, Human, Serum

- Gut microbiome genes involved in plant and mucin breakdown correlate with diet and gastrointestinal inflammation in healthy US adults.

  Sarah E Blecksmith, Andrew Oliver, Zeynep Alkan, Danielle G Lemay.

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  Application: WB-Ti, Human, Plasma

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- Fine-scale Dietary Polyphenol Intake is Associated with Systemic and Gastrointestinal Inflammation in Healthy Adults.

  Stephanie Mg Wilson., Andrew Oliver., Jules A Larke., José J Naveja., Zeynep Alkan., Joseph M Awika., Charles B Stephensen., Danielle G Lemay.

  The Journal of Nutrition 2024 Aug; 0:0.

  Application: ELISA, Human, Plasma

- Cannabis Use and Biomarkers of Inflammation, Immune Activation, and Microbial Translocation in Persons with HIV.

  Chukwuemeka N Okafor, Anoma Somasunderam, Jordan E Lake, Jonathan Gelfond, Marjan Javanbakht, Pamina Gorbach, Steven Shoptaw, Joy Schmitz.

  Cannabis and Cannabinoid Research 2024 Feb; [Epub].

  Application: Quant, Human, Human plasma

- No Associations between Dairy Intake and Markers of Gastrointestinal Inflammation in Healthy Adult Cohort.

  Yasmine Y Bouzid, Elizabeth L Chin, Sarah S Spearman, Zeynep Alkan, Charles B Stephensen, Danielle G Lemay

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  Application: ELISA, Human, plasma

- Impairments of intestinal arginine and NO metabolisms trigger aging-associated intestinal barrier dysfunction and 'inflammaging'.

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  Application: Quant, Human, Plasma

- Serum zonulin as an index of glucose dysregulation in children and adolescents with overweight and obesity.

  Francesca Olivieri, Alice Maguolo, Massimiliano Corradi, Chiara Zusi, Valentina Huber, Elena Fornari, Anita Morandi, Claudio Maffeis.

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  Application: Quant, Human, Serum

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- Association of Diet and Antimicrobial Resistance in Healthy U.S. Adults.

  Andrew Oliver, Zhengyao Xue, Yirui T Villanueva, Blythe Durbin-Johnson, Zeynep Alkan, Diana H Taft, Jinxin Liu, Ian Korf, Kevin D Laugero, Charles B Stephensen, David A Mills, Mary E Kable, Danielle G Lemay.

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  Application: Quant, Human, Human plasma

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  Application: Quant, Human, Human plasma

- Novel associations of serum adropin and lipopolysaccharide-binding protein versus lipid profiles in childhood obesity.

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  Application: Quant, Human, Human serum

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  Application: ELISA, Human, Plasma

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  Application: Quant, Human, Serum from patients with ulcerative colitis in remission

- Blood concentrations of lipopolysaccharide-binding protein, high-sensitivity C-reactive protein, tumor necrosis factor-α, and Interleukin-6 in relation to insulin resistance in young adolescents.

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  Application: ELISA, Human, Plasma

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  Application: Quant, Rat, Rat serum

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  Application: Quant, Human, Blood from patients without obstructive sleep apnoea (OSA), patients with mild-moderate OSA and patients with severe OSA

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  Application: Quant, Human, Plasma/Serum from non-alcoholic fatty liver disease children

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  Application: Quant, Human , Human blood

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  Application: Quant, Human, Plasma from patients with active Crohn’s disease, remissive Crohn’s disease, active Ulcerative Colitis, remissive Ulcerative Colitis and healthy donors (HD)

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  Application: Quant, Human, Blood from type 2 diabetic men

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  Application: Quant, Mouse, Mouse serum

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  Application: ELISA, Mouse, Serum

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  Application: ELISA, Human, Plasma

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  Application: ELISA, Human, Human serum

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  Application: Quan, Human, Human plasma

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  Application: Quant, Human, Human plasma

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  Application: Quant, Bovine, Bovine plasma

Pathway

- Toll-like receptor signaling pathway

Disease

- Atherosclerosis
- Birth Weight
- Cardiovascular Diseases
- Crohn Disease
- Diabetes Mellitus

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- 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

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