

LBP monoclonal antibody, clone biG 48

Catalog # MAB5662 Size 100 ug

Specification

Product Description	Mouse monoclonal antibody raised against recombinant LBP.
Immunogen	Recombinant protein corresponding to human LBP.
Host	Mouse
Reactivity	Human
Specificity	No inhibition of LPS binding to membrane bound CD14.
Form	Lyophilized
Purification	Protein G purification
Isotype	IgG1
Recommend Usage	ELISA (1:10000) LBP inhibition studies Western Blot The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from PBS, pH 7.2.
Storage Instruction	The lyophilized product thought stable room temperature up to 3 weeks, but is best stored desiccate d at -80°C more than 1 year, at refrigerator about 10 months. After reconstitution with 100 uL of sterile ultra-pure distilled water, reconstituted protein should be use d immediately or stored in undiluted working aliquots at -20°C. For long term storage it is recommen ded to add a carrier protein (0.1% BSA). Aliquot to avoid repeated freezing and thawing.

Applications

- Western Blot
- Enzyme-linked Immunoabsorbent Assay

Gene Info — LBP

Entrez GeneID [3929](#)

Gene Name LBP

Gene Alias MGC22233

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

- [Lipopolysaccharide-binding protein expression is increased by stress and inhibits monoamine synthesis to promote depressive symptoms.](#)

Mingqian Fang, Yu Li, Zhiyi Liao, Gan Wang, Qiqi Cao, Ya Li, Yong Duan, Yanbing Han, Xinyi Deng, Feilong Wu, Peter Muiruri Kamau, Qiumin Lu, Ren Lai.

Immunity 2023 Mar; 56(3):620.

Application: Co-IP, IF, Human, Human serum, SH-SY5Y cells

- [Bacterial fimbriae activate human peripheral blood monocytes utilizing TLR2, CD14 and CD11a/CD18 as cellular receptors.](#)

Ogawa T, Asai Y, Hashimoto M, Uchida H.

European Journal of Immunology 2002 Sep; 32(9):2543.

Application: Pretreated, Recombinant protein

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](#)