

Recombinant Mouse Lipopolysaccharide Binding Protein

Cat. No. Lbp-4928M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Lbp was expressed by baculovirus in CHO cells and having a molecular mass of 64.0 kDa.
Species	Mouse
Source	CHO
Description	Natural LBP is a 64 kDa glycoprotein produced in liver. It binds at lipid A of LPS with high affinity (10 ⁻⁹ M) and reduced the cellular LPS effects at CD14 ⁺ cells (IL1 β , IL6, TNF α). It acts as opsonin for GRAM negative cells, LPS, neutrophils and granulocytes.
Biological Activity	Up to 2 μ g/ml LBP mediates binding of FITC-LPS (0.5 μ g/ml) to CD14 ⁺ CHO transfectants (2x10 ⁶ /ml)
Molecular Weight	64.0 kDa
Form	Lyophilized from a concentrated protein solution (1 mg/ml) containing PBS, pH 7.2.
Appearance	Lyophilized protein
Endotoxin Level	<0.01 ng/ μ g
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in 10 μ l of ultra-pure distilled water. This solution can then be diluted into other aqueous buffers and stored at -20°C or -

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	70°C for future use.
Purity	SDS-PAGE analyses
Storage	The lyophilized protein is best-stored desiccated below 0°C. Reconstituted mouse-LBP should be stored in working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (10% BSA). Repeated freezing and thawing should be avoided.
Pathways	Toll-like receptor signaling pathway
GENE INFORMATION	
Gene Name	Lbp lipopolysaccharide binding protein [<i>Mus musculus</i>]
Official Symbol	Lbp
Synonyms	Lbp; lipopolysaccharide binding protein; Ly88; Bpifd2; lipopolysaccharide-binding protein; OTTMUSP00000016997; MGC22233; LPS-binding protein
Gene ID	16803
mRNA Refseq	NM_008489
Protein Refseq	NP_032515
UniProt ID	Q61805
Chromosome Location	2 H1; 2 83.0 cM
Function	lipid binding; lipopolysaccharide binding; lipoteichoic acid binding; receptor binding

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