

# Recombinant Mouse Lipopolysaccharide Binding Protein

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

## SPECIFICATION

<b>Product Overview</b>	Recombinant mouse Lbp was expressed by baculovirus in CHO cells and having a molecular mass of 64.0 kDa.
<b>Species</b>	Mouse
<b>Source</b>	CHO
<b>Description</b>	Natural LBP is a 64 kDa glycoprotein produced in liver. It binds at lipid A of LPS with high affinity (10 <sup>-9</sup> M) and reduced the cellular LPS effects at CD14+ cells (IL1 $\beta$ , IL6, TNF $\alpha$ ). It acts as opsonin for GRAM negative cells, LPS, neutrophils and granulocytes.
<b>Biological Activity</b>	Up to 2 g/ ml LBP mediates binding of FITC-LPS (0.5g/ml) to CD14+CHO transfectants (2x10 <sup>6</sup> /ml)
<b>Molecular Weight</b>	64.0 kDa
<b>Form</b>	Lyophilized from a concentrated protein solution (1 mg/ml) containing PBS, pH 7.2.
<b>Appearance</b>	Lyophilized protein
<b>Endotoxin Level</b>	<0.01 ng/ $\mu$ g
<b>Reconstitution</b>	Centrifuge the vial prior to opening. Reconstitute in 10 $\mu$ 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.
<b>Purity</b>	SDS-PAGE analyses
<b>Storage</b>	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.
<b>Pathways</b>	Toll-like receptor signaling pathway
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	<a href="#">Lbp lipopolysaccharide binding protein [ Mus musculus ]</a>
<b>Official Symbol</b>	<a href="#">Lbp</a>
<b>Synonyms</b>	Lbp; lipopolysaccharide binding protein; Ly88; Bpifd2; lipopolysaccharide-binding protein; OTTMUSP00000016997; MGC22233; LPS-binding protein
<b>Gene ID</b>	<a href="#">16803</a>
<b>mRNA Refseq</b>	<a href="#">NM_008489</a>
<b>Protein Refseq</b>	<a href="#">NP_032515</a>
<b>UniProt ID</b>	<a href="#">Q61805</a>
<b>Chromosome Location</b>	<a href="#">2 H1; 2 83.0 cM</a>
<b>Function</b>	lipid binding; lipopolysaccharide binding; lipoteichoic acid binding; receptor binding

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