

## LBP

### Mouse Anti-Human LPS-binding Protein (Clone biG 412) mAb

<b>Catalog No.</b>	CML004	<b>Quantity:</b>	100 µg
<b>Alternate Names:</b>	Lipopolysaccharide Binding Protein, LPS-binding protein, BPI fold containing family D, member 2, BPIFD2		
<b>Description:</b>	<p>LBP 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).</p> <p>This antibody directly influences the interaction of CD14-LPS-LBP. The binding site is at the C-terminal end of LBP.</p>		
<b>Concentration:</b>	≥ 1 mg/ml (lot-specific) IgG content determined by mouse IgG ELISA prior to lyophilization.		
<b>Gene ID:</b>	3929		
<b>UniProt ID:</b>	P18428		
<b>Host:</b>	Mouse		
<b>Immunogen:</b>	LBP knockout mouse was immunized with immunoaffinity purified recombinant human LBP		
<b>Isotype:</b>	IgG1		
<b>Clone:</b>	biG 412		
<b>Formulation:</b>	Lyophilized from a concentrated protein solution containing PBS, pH 7.2. Content was determined by OD280 nm. No preservatives or stabilizer added.		
<b>Purification:</b>	Protein G affinity chromatography		
<b>Reconstitution:</b>	<b>Centrifuge vial prior to opening.</b> Reconstitute with sterile ultra-pure deionized water. This product can be diluted further with PBS or other buffers.		
<b>Applications:</b>	<p><b>ELISA:</b> 1:5,000</p> <p><b>LBP inhibition studies:</b> 1:1000, inhibits LPS binding to membrane-bound CD14</p> <p>Not useful for Western blot</p> <p>The optimal concentration should be determined by the user for each specific application.</p>		
<b>Storage &amp; Stability:</b>	<p>Upon receipt, stored as supplied for up to 1 year at -20°C to -80°C Reconstituted antibody should be used immediately or stored in working aliquots at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% BSA).</p> <p><b>Avoid repeated freeze/thaw cycles.</b></p>		

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