

## DESCRIPTION

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|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>Species Reactivity</b>                                                                                                                                                                               | Human                                                                                             |
| <b>Specificity</b>                                                                                                                                                                                      | Detects human LBP in direct ELISAs.                                                               |
| <b>Source</b>                                                                                                                                                                                           | Monoclonal Mouse IgG <sub>2B</sub> Clone # 127420                                                 |
| <b>Purification</b>                                                                                                                                                                                     | Protein A or G purified from hybridoma culture supernatant                                        |
| <b>Immunogen</b>                                                                                                                                                                                        | Mouse myeloma cell line NS0-derived recombinant human LBP<br>Ala26-Val481<br>Accession # AAD21962 |
| <b>Conjugate</b>                                                                                                                                                                                        | Alexa Fluor 647<br>Excitation Wavelength: 650 nm<br>Emission Wavelength: 668 nm                   |
| <b>Formulation</b>                                                                                                                                                                                      | Supplied 0.2mg/ml in 1X PBS with RDF1 and 0.09% Sodium Azide                                      |
| *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions. |                                                                                                   |

## APPLICATIONS

**Please Note:** Optimal dilutions should be determined by each laboratory for each application. [General Protocols](#) are available in the Technical Information section on our website.

**ELISA** Optimal dilution of this antibody should be experimentally determined.

## PREPARATION AND STORAGE

|                                |                                                                                                                   |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Shipping</b>                | The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below. |
| <b>Stability &amp; Storage</b> | Protect from light. Do not freeze. 12 months from date of receipt, 2 to 8 °C as supplied                          |

## BACKGROUND

Lipopolysaccharide-binding protein (LBP), a 58 kDa glycoprotein synthesized in hepatocytes, belongs to a family of lipid-binding proteins which includes bactericidal/permeability increasing protein (BPI), phospholipid ester transfer protein (PLTP), and cholesterol ester transfer protein (CETP). LBP binds to the lipid A portion of lipopolysaccharide (LPS) to facilitate the process of LPS monomerization, catalyze the binding of LPS monomers to CD14, and promote LPS-induced immune response. LBP is present at low concentrations in normal human serum and may increase up to 30-fold during the acute phase response. Studies indicate that LBP also acts catalytically in the transfer of LPS to HDL, thus accelerating LPS detoxification. In addition, LBP and soluble CD14 can also function in phospholipid transport.

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