

ARG81866 Human LBP ELISA Kit

Package: 96 wells
Store at: 4°C

Component

| Cat. No. | Component Name | Package | Temp |
|--------------|---------------------------------------|----------------------|---|
| ARG81866-001 | Antibody-coated microplate | 8 X 12 strips | 4°C. Unused strips should be sealed tightly in the air-tight pouch. |
| ARG81866-002 | Standard | 2 X 50 ng/vial | 4°C |
| ARG81866-003 | Standard/Sample diluent | 30 ml (Ready to use) | 4°C |
| ARG81866-004 | Antibody conjugate concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG81866-005 | Antibody diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81866-006 | HRP-Streptavidin concentrate (100X) | 1 vial (100 µl) | 4°C |
| ARG81866-007 | HRP-Streptavidin diluent buffer | 12 ml (Ready to use) | 4°C |
| ARG81866-008 | 25X Wash buffer | 20 ml | 4°C |
| ARG81866-009 | TMB substrate | 10 ml (Ready to use) | 4°C (Protect from light) |
| ARG81866-010 | STOP solution | 10 ml (Ready to use) | 4°C |
| ARG81866-011 | Plate sealer | 4 strips | Room temperature |

Summary

| | |
|---------------------|---|
| Product Description | ARG81866 Human LBP ELISA Kit is an Enzyme Immunoassay kit for the quantification of Human LBP in serum, plasma (heparin, EDTA) and cell culture supernatants. |
| Tested Reactivity | Hu |
| Tested Application | ELISA |
| Specificity | There is no detectable cross-reactivity with other relevant proteins. |
| Target Name | LBP |
| Conjugation | HRP |
| Conjugation Note | Substrate: TMB and read at 450 nm. |
| Sensitivity | 0.39 ng/ml |
| Sample Type | Serum, plasma (heparin, EDTA) and cell culture supernatants. |
| Standard Range | 0.78 - 50 ng/ml |
| Sample Volume | 100 µl |

| | |
|-----------------|---|
| Precision | Intra-Assay CV: 5.6%; Inter-Assay CV: 6.3% |
| Alternate Names | LBP; Lipopolysaccharide-binding protein; BPIFD2 |

Application Instructions

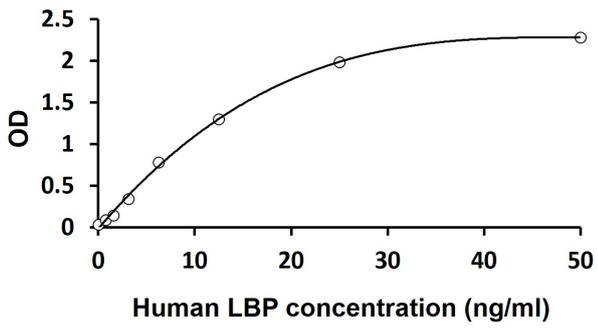
| | |
|------------|-----------|
| Assay Time | ~ 5 hours |
|------------|-----------|

Properties

| | |
|---------------------|--|
| Form | 96 well |
| Storage instruction | Store the kit at 2-8°C. Keep microplate wells sealed in a dry bag with desiccants. Do not expose test reagents to heat, sun or strong light during storage and usage. Please refer to the product user manual for detail temperatures of the components. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

| | |
|----------------|---|
| Gene Symbol | LBP |
| Gene Full Name | lipopolysaccharide binding protein |
| Background | 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). [provided by RefSeq, Apr 2012] |
| Function | Plays a role in the innate immune response. Binds to the lipid A moiety of bacterial lipopolysaccharides (LPS), a glycolipid present in the outer membrane of all Gram-negative bacteria, and acts as an affinity enhancer for CD14, facilitating its association with LPS. Promotes the release of cytokines in response to bacterial lipopolysaccharide. [UniProt] |
| Highlight | Related products: LBP antibodies ; LBP ELISA Kits ; New ELISA data calculation tool: Simplify the ELISA analysis by GainData |



ARG81866 Human LBP ELISA Kit standard curve image

ARG81866 Human LBP ELISA Kit results of a typical standard run with optical density reading at 450 nm.