

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

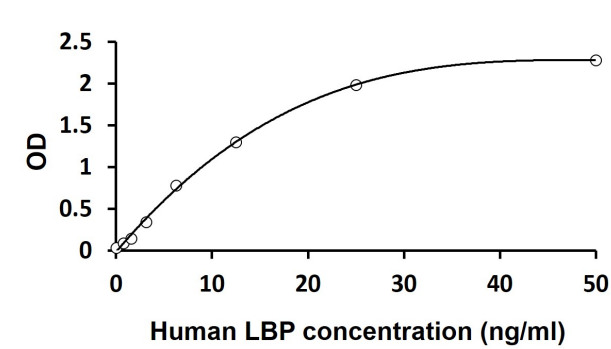
Assay Time	~ 5 hours
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Properties

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.