

Datasheet for KOA0747**Human LBP ELISA Kit****Overview**

Description:	Human LBP AccuSignal ELISA Kit - KOA0747
Item No.:	KOA0747
Size:	1 Kit
Applications:	ELISA
Reactivity:	Human
Range:	1.56 ng/ml - 100 ng/ml

Product Details

Background:	Lipopolysaccharide binding protein is a protein that in humans is encoded by the LBP gene. This gene is mapped to 20q11.23. LBP is a soluble acute-phase protein that binds to bacterial lipopolysaccharide(or LPS) to elicit immune responses by presenting the LPS to important cell surface pattern recognition receptors called CD14 and TLR4. It is present in the cerebrospinal fluid of patients with pneumococcal meningitis. The protein encoded by this gene is involved in the acute-phase immunologic response to gram-negative bacterial infections. LBP is made in the liver during the acute phase of infections and is thought to function as a carrier for LPS and to help control LPS-dependent monocyte responses.
Synonyms:	BPI fold containing family D member 2, Bpifd2, LBP, LBP_HUMAN, LBP1, Lipopolysaccharide binding protein, Lipopolysaccharide-binding protein, LPS binding protein, Ly88, MGC22233, OTTHUMP00000030965, RP23-407H16.4
Detection Kit Type:	ELISA Kit
Detection Range:	1.56 ng/ml - 100 ng/ml
Sensitivity:	<50 pg/ml

Target Details

Gene Name:	LBP
Reactivity:	Human
Immunogen:	Expression system for standard: NSO; Immunogen sequence: A26-V481

Purity/Specificity: Natural and recombinant human LBP. There is no detectable cross-reactivity with other relevant proteins.

Relevant Links:

- [UniProtKB - P18428](#)
- [NCBI - NP_004130.2](#)
- [GeneID - 3929](#)
- [KOA0747 Protocol](#)

Application Details

Tested Applications: ELISA

Application Note: Useful in Sandwich ELISA for Quantitative Detection of Antigen. Aliquot 0.1ml per well of the 50ng/ml, 25ng/ml, 1.25ng/ml, 6.25ng/ml, 3.12ng/ml, 1.56ng/ml, and 0.781ng/ml human LBP standard solutions into the precoated 96-well plate. Add 0.1ml of the sample diluent buffer into the control well (Zero well). Add 0.1ml of each properly diluted sample of human cell culture supernates, serum or plasma(heparin, EDTA) to each empty well. We recommend that each human LBP standard solution and each sample is measured in duplicate.

Assay Dilutions: All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.

Other: DOE:
11/26/22 at 2-8°C
05/27/23 at -20°C

Formulation

Anticoagulant: Heparin Sodium

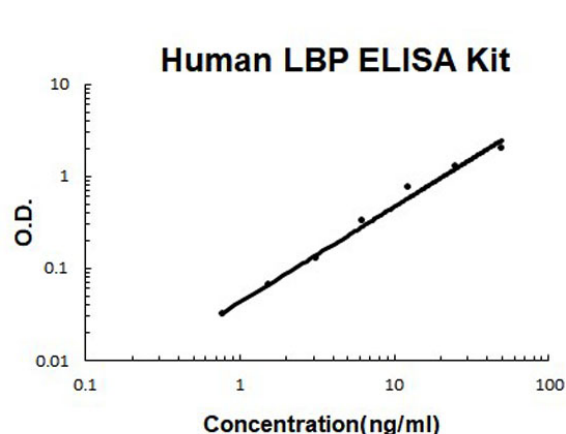
Shipping & Handling

Shipping Condition: Wet Ice

Storage Condition: Store vials at 4°C prior to opening. Centrifuge product if not completely clear after standing at room temperature. This product is stable for 6 months at 4°C as an undiluted liquid. Dilute only prior to immediate use. For extended storage freeze at -20°C or below for 12 months. Avoid cycles of freezing and thawing.

Expiration: See kit insert for complete instructions.

Images



ELISA

Human LBP ELISA Kit standard curve.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.