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Datasheet for ABIN6957514 LBP ELISA Kit

1 Image

1 Publication



Overview

Quantity:	96 tests
Target:	LBP
Reactivity:	Pig
Method Type:	Sandwich ELISA
Detection Range:	1.56 ng/mL - 100 ng/mL
Minimum Detection Limit:	1.56 ng/mL
Application:	ELISA

Product Details

Purpose:	The kit is a sandwich enzyme immunoassay for in vitro quantitative measurement of LBP in porcine serum, plasma.
Sample Type:	Plasma, Serum
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Specificity:	This assay has high sensitivity and excellent specificity for detection of Lipopolysaccharide Binding Protein (LBP)
Sensitivity:	0.67 ng/mL
Components:	 Pre-coated, ready to use 96-well strip plate, flat buttom Plate sealer for 96 wells Reference Standard Standard Dilucent

• Standard Diluent

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- Detection Reagent A
- Detection Reagent B
- Assay Diluent A
- Assay Diluent B
- Reagent Diluent (if Detection Reagent is lyophilized)
- TMB Substrate
- Stop Solution
- Wash Buffer (30 x concentrate)
- Instruction manual

Target Details

Target:	LBP
Abstract:	LBP Products
Pathways:	TLR Signaling, Activation of Innate immune Response, Cellular Response to Molecule of Bacterial Origin, Positive Regulation of Immune Effector Process, Toll-Like Receptors Cascades,
	Monocarboxylic Acid Catabolic Process

Application Details

Comment:	Information on standard material:
	The standard might be recombinant protein or natural protein, that will depend on the specific
	kit. Moreover, the expression system is E.coli or yeast or mammal cell. There is 0.05% proclin
	300 in the standard as preservative.
	Information on reagents:
	The stop solution used in the kit is sulfuric acid with concentration of 1 mol/L. And the wash
	solution is TBS. The standard diluent contains 0.02 % sodium azide, assay diluent A and assay
	diluent B contain 0.01% sodium azide. Some kits can contain is BSA in them.
	Information on antibodies:
	The provided antibodies and their host vary in different kits.
Sample Volume:	100 μL
Assay Time:	3 h
Plate:	Pre-coated

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Application Details

Note:
TMB substrate - Aspirate the needed dosage of the solution with sterilized tips and do not dump the residual solution into the vial again.
or distilled water to prepare 600 mL of Wash Solution (1x).
4. Wash Solution - Dilute 20 mL of Wash Solution concentrate (30x) with 580 mL of deionized
use. Dilute them to the working concentration 100-fold with Assay Diluent A and B, respectively.
gently (not to foam). Briefly spin or centrifuge the stock Detection A and Detection B before
Reagent A with 150µL of Reagent Diluent, keep for 10 minutes at room temperature, shake
3. Detection Reagent A and Detection Reagent B - If lyophilized reconstitute the Detection
as 0 ng/mL.
3.12 ng/mL, 1.56 ng/mL, and the last microcentrifuge tube with Standard Diluent is the blank
diluted standard such as 100 ng/mL, 50 ng/mL, 25 ng/mL, 12.5 ng/mL, 6.25 ng/mL,
double dilution series. Mix each tube thoroughly before the next transfer. Set up 7 points of
solution is 100 ng/mL. Prepare 7 tubes containing 0.5 mL Standard Diluent and produce a
room temperature, shake gently (not to foam). The concentration of the standard in the stoc
2. Standard - Reconstitute the Standard with 1.0 mL of Standard Diluent, keep for 10 minutes a
experiment, and leave the remaining strips and reagents in required condition.
will not be used up in one time, please only take out strips and reagents for present
1. Bring all kit components and samples to room temperature (18-25 °C) before use. If the kit
1. Bring all kit components and samples to room temperature (18-25 °C) before use. If the k
8. Add 50µL Stop Solution. Read at 450nm immediately.
7. Add 90µL Substrate Solution. Incubate 10-20 minutes at 37 °C,
6. Aspirate and wash 5 times,
5. Add 100µL prepared Detection Reagent B. Incubate 30 minutes at 37 °C,
•
4. Aspirate and wash 3 times,
3. Aspirate and add 100 μ L prepared Detection Reagent A. Incubate 1 hour at 37 °C,
2. Add 100µL standard or sample to each well. Incubate 1 hours at 37 °C,

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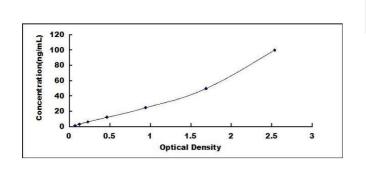
Product cited in:	Synhaeve, Wade-Gueye, Musilli, Stefani, Grandcolas, Gruel, Souidi, Dublineau, Bertho: "Chronic
Publications	
Expiry Date:	6 months
	conditions. In addition, please return the unused wells to the foil pouch containing the desiccant and seal the foil pouch with the zipper.
	2. For opened kits: the remaining reagents must be stored according to the above storage
	Standard, Detection Reagent A, Detection Reagent B, and 96-well Strip Plate should be stored at -20 °C upon receipt, while the other reagents should be stored at 4 °C.
Storage Comment:	1. For unopened kit: All reagents should be stored according to the labels on the vials. The
Storage:	4 °C/-20 °C
Precaution of Use:	The Stop Solution suggested for use with this kit is an acid solution. Wear eye, hand, face, and clothing protection when using this material.
Handling	
Restrictions:	For Research Use only
	Inter-Assay: CV < 12%
	Intra-Assay: CV < 10%
	CV(%) = SD/meanX100
	target were tested on 3 different plates, 8 replicates in each plate.
	target were tested 20 times on one plate, respectively. Inter-assay Precision (Precision between assays): 3 samples with low, middle and high level of
Assay Precision:	Intra-assay Precision (Precision within an assay): 3 samples with low, middle and high level of
	are not in therange of the standard curve, the optimal sample dilution for the particular experiment has to be determined.Samples should then be diluted with PBS (pH =7.0-7.2).
	recommended dilution factor is for reference only.Please estimate the concentration of the samples before performing the test. If the values
	possibility of causing a deviation due to the introduced chemical substance. The
	 If the sample type is not specified in the instructions, a preliminary test is necessary to determinecompatibility with the kit. If a lysis buffer is used to prepare tissue homogenates or cell culture supernatant, there is a
	 and denaturationmay occur in these samples, leading to false results. Samples should therefore be stored for a short periodat 2 - 8 °C or aliquoted at -20 °C (≤1 month) or -80 °C (≤ 3 months). Repeated freeze-thawcycles should be avoided. Prior to assay, the frozen samples should be slowly thawed and centrifuged toremove precipitates. If the sample type is not specified in the instructions, a preliminary test is necessary to

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Tomaszewska, Dobrowolski, Wydrych: "Postnatal administration of 2-oxoglutaric acid improves articular and growth plate cartilages and bone tissue morphology in pigs prenatally treated with dexamethasone." in: **Journal of physiology and pharmacology : an official journal of the Polish Physiological Society**, Vol. 63, Issue 5, pp. 547-54, (2012) (PubMed).

Images



ELISA

Image 1. Typical standard curve

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