

Bovine Lipopolysaccharide binding protein (LBP) ELISA Kit

Catalog No: #EK12009

Package Size: #EK12009-1 48T #EK12009-2 96T

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Description

Product Name	Bovine Lipopolysaccharide binding protein (LBP) ELISA Kit
Brief Description	ELISA Kit
Applications	ELISA
Species Reactivity	Bovine (Bos taurus; Cattle)
Other Names	MGC22233; LPS-binding protein lipopolysaccharide-binding protein
Accession No.	Q2TBI0
Uniprot	Q2TBI0
GeneID	512242;
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D.values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range:0.625-40 ng/mL

Sensitivity:0.288 ng/mL

Sample Type:Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time:1-4.5h

Detection wavelength:450 nm

Product Description

Detection Method:SandwichTest principle:This assay employs a two-site sandwich ELISA to quantitate LBP in samples. An antibody specific for LBP has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and anyLBP present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for LBP is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of LBP bound in the initial step. The color development is stopped and the intensity of the color is measured.**Product Overview:**LPS-binding protein (LBP) is serum factor known to regulate the endotoxin-induced cellular immune response. Sepsis is a morbid condition induced by a toxin, the introduction or accumulation of which is most commonly caused by infection or trauma. Sepsis-inducing toxins have been found associated with pathogenic bacteria, viruses, plants and venoms.Among the well described bacterial toxins are the endotoxins or lipopolysaccharides (LPS) of the gram-negative bacteria. Upon introduction of LPS into the blood it binds to lipopolysaccharide binding protein (LBP). LBP recognizes the lipid A region of LPS and forms high affinity complexes with both rough and smooth form LPS. During the acute phase, LBP is synthesized by hepatocytes, and reaches very high concentrations in serum.

Note: This product is for in vitro research use only