



Chicken lipopolysaccharide binding protein (LBP) ELISA kit

Cat. No.:	0126WXX-756
Assay Type:	Quantitative ELISA
Target Species:	Chicken
Assay Target:	LBP
Size:	48T; 96T

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Chicken lipopolysaccharide binding protein (LBP) ELISA kit is an ELISA-based <i>in vitro</i> research tool designed specifically for the quantitative detection of LBP in chicken samples. The kit is highly sensitive and easy to use.
Assay Principle	The ELISA analytical biochemical technique is based on LBP antibody-LBP antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect LBP antigen targets in samples.
Background	LBP is a secreted protein primarily present in the extracellular space. Its core function is to bind bacterial lipopolysaccharide (LPS), a glycolipid found on the outer membrane of all Gram-negative bacteria. LBP is significant in obesity research because it plays a pivotal role in the link between inflammation, gut microbiota, and metabolic health. By studying LBP's mechanisms of action and its level changes, scientists can better understand how obesity leads to systemic inflammation and insulin resistance, potentially developing therapies targeting LBP or its associated signaling pathways.
Synonyms	LPS-binding protein
Formula Weight	53,384 Da
Applications	Chicken lipopolysaccharide binding protein (LBP) ELISA kit is used to quantify LBP in chicken samples, providing data to support research in a wide range of areas, including Infection immunity, obesity, etc.
Research Area	Infection immunity; Obesity

Specification



Sample Type	Chicken samples
Detection Limit	1.56-100 ng/mL
Sensitivity	0.5 ng/mL
Precision (Intra-assay)	CV≤8%
Precision (Inter-assay)	CV≤12%
Cross-reactivity	No significant cross-reactivity or interference was observed.
Storage	Store at 2-8°C.