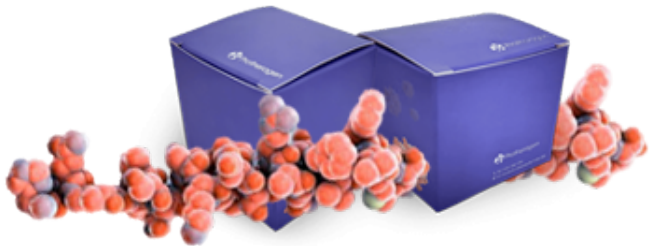
Protheragen Obesity



# Rabbit lipopolysaccharide binding protein (LBP) ELISA kit (1.56-100 ng/mL)

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| **Cat. No.:** | 0126WXX-774 |
| **Assay Type:** | Quantitative sandwich ELISA |
| **Target Species:** | Rabbit |
| **Assay Target:** | LBP |
| **Size:** | 48T; 96T |

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

## Product Overview

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| **Description** | Rabbit lipopolysaccharide binding protein (LBP) ELISA kit (1.56-100 ng/mL) is an ELISA-based *in vitro* research tool designed specifically for the quantit ative detection of LBP in rabbit samples with a range of 1.56-100 ng/mL and a mi nimum detectable dose (sensitivity) of <0.5 ng/mL. The kit is highly sensitive a nd easy to use. |
| **Assay Principle** | The microplate is pre-coated with a rabbit LBP monoclonal antibody, and a biotin - labeled polyclonal antibody is used for detection. Samples and detection antibo dies are added and washed with PBS or TBS. Avidin-peroxidase conjugates are then added. Following a thorough wash, TMB substrate is introduced. The resulting bl ue product shifts to yellow upon acidification. The color depth and the concentr ation of the target factors in the sample are positively correlated. |
| **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 t he outer membrane of all Gram-negative bacteria. LBP is significant in obesity r esearch because it plays a pivotal role in the link between inflammation, gut mi crobiota, and metabolic health. By studying LBP's mechanisms of action and its l evel changes, scientists can better understand how obesity leads to systemic inf lammation and insulin resistance, potentially developing therapies targeting LBP or its associated signaling pathways. |
| **Synonyms** | LPS-binding protein |
| **Formula Weight** | 53,384 Da |

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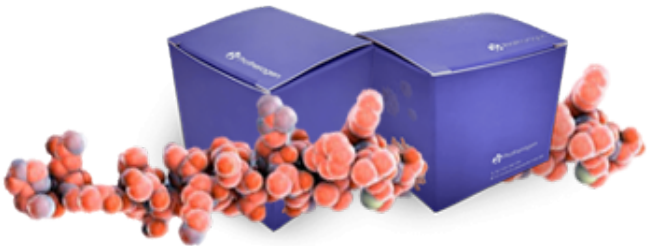

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| **Applications** | Rabbit lipopolysaccharide binding protein (LBP) ELISA kit (1.56-100 ng/mL) is us ed to quantify LBP in serum, plasma, and cell culture supernatant of rabbit, pro viding data to support research in a wide range of areas, including Infection im munity, obesity, *etc*. |
| **Research Area** | Infection immunity; Obesity |

## Specification

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| **Sample Type** | Rabbit serum; Plasma; Cell culture supernatant |
| **Detection Range** | 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. |

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