

Rat LBP Antibody Pair Set

| | | | |
|--------------------|--|---------------------|-------|
| Catalog No. | E-KAB-0692 | Applications | ELISA |
| Synonyms | LPS-Binding Protein;Lipopolysaccharide Binding Protein;Lipopolysaccharide-Binding Protein;BPI Fold Containing Family D,Member 2;BPIFD2 | | |

Kit components & Storage

| Title | Specifications | Storage |
|-------------------------------------|----------------|---|
| Rat LBP Capture Antibody | 1 vial, 100 µg | Store at -20°C. Avoid freeze / thaw cycles. |
| Rat LBP Detection Antibody (Biotin) | 1 vial, 50 µL | Store at -20°C. Avoid freeze / thaw cycles. |

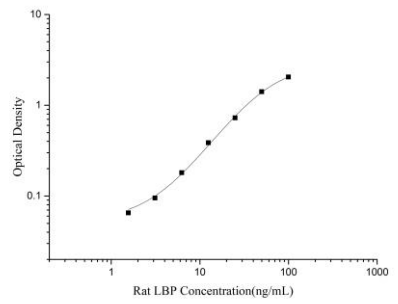
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

| Items | | Characteristic (E-KAB-0692) | |
|-----------------------|---------------|--|---|
| | | Rat LBP Capture Antibody | Rat LBP Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Recombinant Rat LBP protein | Recombinant Rat LBP protein |
| | Swissprot | Q63313 | |
| Product details | Reactivity | Rat | Rat |
| | Host | Rabbit | Rabbit |
| | Conjugation | Unconjugated | Biotin |
| | Concentration | 0.5mg/mL | / |
| | Buffer | PBS with 0.04% Proclin 300, 50% glycerol, pH 7.4 | PBS with 0.04% Proclin 300, 1% protective protein, 50% glycerol, pH 7.4 |
| | Purify | Affinity purification | Affinity purification |
| | Specificity | Detects Rat LBP in ELISAs. | |

Applications

Rat LBP Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images | | | | | | | | | | | | | | | | |
|-------------------------------|------------------------------------|-------------------------------------|---|-------------------------------|-----------------|---|------|---|-----|---|-----|----|-----|----|-----|----|-----|-----|-----|
| ELISA Capture | 0.5-4ug/mL | Rat LBP Capture Antibody |  <p>The graph is a log-log plot. The x-axis is labeled 'Rat LBP Concentration (ng/mL)' and ranges from 1 to 1000. The y-axis is labeled 'Optical Density' and ranges from 0.1 to 10. The data points form a smooth, upward-sloping curve, indicating a positive correlation between concentration and optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Rat LBP Concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.05</td> </tr> <tr> <td>2</td> <td>0.1</td> </tr> <tr> <td>5</td> <td>0.2</td> </tr> <tr> <td>10</td> <td>0.4</td> </tr> <tr> <td>20</td> <td>0.8</td> </tr> <tr> <td>50</td> <td>1.5</td> </tr> <tr> <td>100</td> <td>2.5</td> </tr> </tbody> </table> | Rat LBP Concentration (ng/mL) | Optical Density | 1 | 0.05 | 2 | 0.1 | 5 | 0.2 | 10 | 0.4 | 20 | 0.8 | 50 | 1.5 | 100 | 2.5 |
| Rat LBP Concentration (ng/mL) | Optical Density | | | | | | | | | | | | | | | | | | |
| 1 | 0.05 | | | | | | | | | | | | | | | | | | |
| 2 | 0.1 | | | | | | | | | | | | | | | | | | |
| 5 | 0.2 | | | | | | | | | | | | | | | | | | |
| 10 | 0.4 | | | | | | | | | | | | | | | | | | |
| 20 | 0.8 | | | | | | | | | | | | | | | | | | |
| 50 | 1.5 | | | | | | | | | | | | | | | | | | |
| 100 | 2.5 | | | | | | | | | | | | | | | | | | |
| ELISA Detection | 1:1000-1:10000 | Rat LBP Detection Antibody (Biotin) | | | | | | | | | | | | | | | | | |

Note: This standard curve is only for demonstration purposes. A standard curve should be generated for each assay!

Background

LPS-binding protein (LBP) is a protein that binds to the lipid A moiety of bacterial lipopolysaccharides (LPS), which is a glycolipid present in the outer membrane of all Gram-negative bacteria. It is involved in the immunological response to infections of Gram-negative bacteria, together with bactericidal permeability-increasing protein (BPI). LBP also interacts with the CD14 receptor and enhances its association with LPS. LBP is associated with diseases including bacterial sepsis, and is related to cytokine release in response to bacteria in immune system.