

Human TSP-1 Antibody Pair Set

| | | | |
|--------------------|---|---------------------|-------|
| Catalog No. | E-KAB-0223 | Applications | ELISA |
| Synonyms | THBS1 , THBS-1, TSP, TSP1, Thrombospondin-1p180 | | |

Kit components & Storage

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

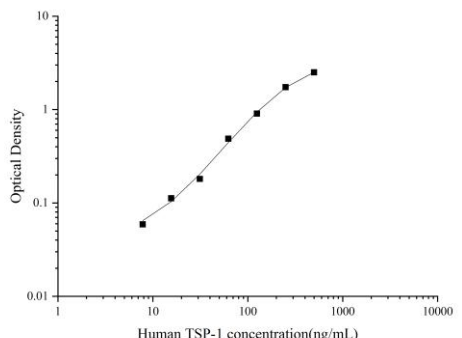
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

| Items | | Characteristic (E-KAB-0223) | |
|-----------------------|---------------|--|---|
| | | Human TSP-1 Capture Antibody | Human TSP-1 Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Recombinant Human TSP-1 protein | Recombinant Human TSP-1 protein |
| | Swissprot | P07996 | |
| Product details | Reactivity | Human | Human |
| | Host | Mouse | Goat |
| | 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 | Protein A or G | Antigen Affinity |
| | Specificity | Detects Human TSP-1 in ELISAs. | |

Applications

Human TSP-1 Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images | | | | | | | | | | | | | | | | |
|-----------------------------------|------------------------------------|---|--|-----------------------------------|-----------------|----|------|----|-----|----|-----|-----|-----|-----|-----|-----|-----|------|-----|
| ELISA Capture | 0.5-4µg/mL | Human TSP-1 Capture Antibody |  <p>The graph is a log-log plot of Optical Density versus Human TSP-1 concentration (ng/mL). The x-axis ranges from 1 to 10,000 ng/mL, and the y-axis ranges from 0.01 to 10. The data points show a clear upward trend, indicating that as the concentration of Human TSP-1 increases, the optical density also increases. The curve is approximately linear on this log-log scale, suggesting a power-law relationship between the two variables.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human TSP-1 concentration (ng/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>10</td> <td>0.05</td> </tr> <tr> <td>20</td> <td>0.1</td> </tr> <tr> <td>50</td> <td>0.2</td> </tr> <tr> <td>100</td> <td>0.4</td> </tr> <tr> <td>200</td> <td>0.8</td> </tr> <tr> <td>500</td> <td>1.5</td> </tr> <tr> <td>1000</td> <td>2.5</td> </tr> </tbody> </table> | Human TSP-1 concentration (ng/mL) | Optical Density | 10 | 0.05 | 20 | 0.1 | 50 | 0.2 | 100 | 0.4 | 200 | 0.8 | 500 | 1.5 | 1000 | 2.5 |
| Human TSP-1 concentration (ng/mL) | Optical Density | | | | | | | | | | | | | | | | | | |
| 10 | 0.05 | | | | | | | | | | | | | | | | | | |
| 20 | 0.1 | | | | | | | | | | | | | | | | | | |
| 50 | 0.2 | | | | | | | | | | | | | | | | | | |
| 100 | 0.4 | | | | | | | | | | | | | | | | | | |
| 200 | 0.8 | | | | | | | | | | | | | | | | | | |
| 500 | 1.5 | | | | | | | | | | | | | | | | | | |
| 1000 | 2.5 | | | | | | | | | | | | | | | | | | |
| ELISA Detection | 1:1000-1:10000 | Human TSP-1 Detection Antibody (Biotin) | | | | | | | | | | | | | | | | | |

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

Background

The protein encoded by this gene is a subunit of a disulfide-linked homotrimeric protein. This protein is an adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. This protein can bind to fibrinogen, fibronectin, laminin, type V collagen and integrins alpha-V/beta-1. This protein has been shown to play roles in platelet aggregation, angiogenesis, and tumorigenesis.