

Human ESM1 Antibody Pair Set

| | | | |
|--------------------|---|---------------------|-------|
| Catalog No. | E-KAB-0165 | Applications | ELISA |
| Synonyms | endocan, Endothelial cell-specific molecule 1 | | |

Kit components & Storage

| Title | Specifications | Storage |
|--|----------------|---|
| Human ESM1 Capture Antibody | 1 vial, 100 µg | Store at -20°C for one year. Avoid freeze / thaw cycles. |
| Human ESM1 Detection Antibody (Biotin) | 1 vial, 50 µL | Store at -20°C for one year. Avoid freeze / thaw cycles. |

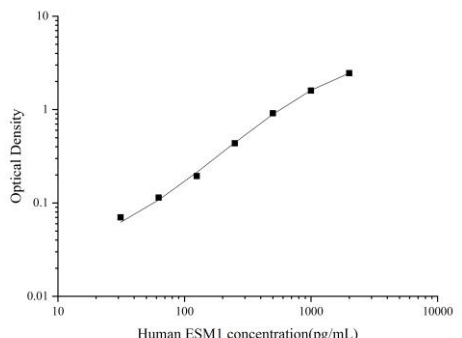
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

| Items | | Characteristic (E-KAB-0165) | |
|-----------------------|---------------|--|---|
| | | Human ESM1 Capture Antibody | Human ESM1 Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Recombinant Human ESM1 protein | Recombinant Human ESM1 protein |
| | Swissprot | Q9NQ30 | |
| Product details | Reactivity | Human | Human |
| | Host | Goat | 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 | Antigen Affinity | Antigen Affinity |
| | Specificity | Detects Human ESM1 in ELISAs. | |

Applications

Human ESM1 Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images | | | | | | | | | | |
|----------------------------------|------------------------------------|--|--|----------------------------------|-----------------|----|------|-----|-----|------|-----|-------|-----|
| ELISA Capture | 0.5-4µg/mL | Human ESM1 Capture Antibody |  <p>The graph is a log-log plot of Optical Density versus Human ESM1 concentration (pg/mL). The y-axis (Optical Density) ranges from 0.01 to 10, and the x-axis (Human ESM1 concentration) ranges from 10 to 10000. The data points form a straight line with a positive slope, indicating a linear relationship between the concentration of Human ESM1 and the optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human ESM1 concentration (pg/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr><td>10</td><td>0.05</td></tr> <tr><td>100</td><td>0.2</td></tr> <tr><td>1000</td><td>0.8</td></tr> <tr><td>10000</td><td>3.0</td></tr> </tbody> </table> | Human ESM1 concentration (pg/mL) | Optical Density | 10 | 0.05 | 100 | 0.2 | 1000 | 0.8 | 10000 | 3.0 |
| Human ESM1 concentration (pg/mL) | Optical Density | | | | | | | | | | | | |
| 10 | 0.05 | | | | | | | | | | | | |
| 100 | 0.2 | | | | | | | | | | | | |
| 1000 | 0.8 | | | | | | | | | | | | |
| 10000 | 3.0 | | | | | | | | | | | | |
| ELISA Detection | 1:1000-1:10000 | Human ESM1 Detection Antibody (Biotin) | | | | | | | | | | | |

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

Background

This gene encodes a secreted protein which is mainly expressed in the endothelial cells in human lung and kidney tissues. The expression of this gene is regulated by cytokines, suggesting that it may play a role in endothelium-dependent pathological disorders. The transcript contains multiple polyadenylation and mRNA instability signals. Two transcript variants encoding different isoforms have been found for this gene.