

Human CA125 Antibody Pair Set

| | | | |
|--------------------|-----------------|---------------------|-------|
| Catalog No. | E-KAB-0139 | Applications | ELISA |
| Synonyms | MUC16, Mucin 16 | | |

Kit components & Storage

| Title | Specifications | Storage |
|---|----------------|---|
| Human CA125 Capture Antibody | 1 vial, 100 µg | Store at -20°C for one year. Avoid freeze / thaw cycles. |
| Human CA125 Detection Antibody (Biotin) | 1 vial, 50 µL | Store at -20°C for one year. Avoid freeze / thaw cycles. |

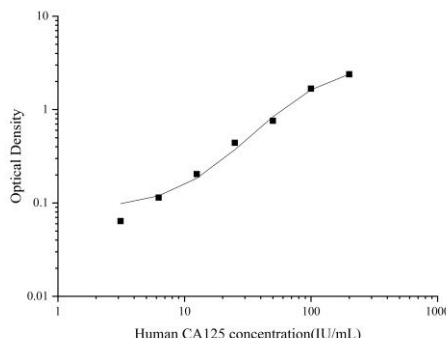
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

| Items | | Characteristic (E-KAB-0139) | |
|-----------------------|---------------|--|---|
| | | Human CA125 Capture Antibody | Human CA125 Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Native Protein | Native Protein |
| | Swissprot | Q8WXI7 | |
| Product details | Reactivity | Human | Human |
| | Host | Mouse | Mouse |
| | 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 | Protein A |
| | Specificity | Detects Human CA125 in ELISAs. | |

Applications

Human CA125 Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images | | | | | | | | | | |
|-----------------------------------|------------------------------------|---|---|-----------------------------------|-----------------|---|------|----|-----|-----|-----|------|-----|
| ELISA Capture | 0.5-4µg/mL | Human CA125 Capture Antibody |  <p>The graph is a log-log plot of Optical Density versus Human CA125 concentration (IU/mL). The x-axis ranges from 1 to 1000 IU/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 CA125 increases, the optical density also increases. The curve is smooth and passes through several data points.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human CA125 concentration (IU/mL)</th> <th>Optical Density</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>0.05</td> </tr> <tr> <td>10</td> <td>0.2</td> </tr> <tr> <td>100</td> <td>1.0</td> </tr> <tr> <td>1000</td> <td>5.0</td> </tr> </tbody> </table> | Human CA125 concentration (IU/mL) | Optical Density | 1 | 0.05 | 10 | 0.2 | 100 | 1.0 | 1000 | 5.0 |
| Human CA125 concentration (IU/mL) | Optical Density | | | | | | | | | | | | |
| 1 | 0.05 | | | | | | | | | | | | |
| 10 | 0.2 | | | | | | | | | | | | |
| 100 | 1.0 | | | | | | | | | | | | |
| 1000 | 5.0 | | | | | | | | | | | | |
| ELISA Detection | 1:1000-1:10000 | Human CA125 Detection Antibody (Biotin) | | | | | | | | | | | |

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

Background

MUC16, also named as CA125, is thought to provide a protective, lubricating barrier against particles and infectious agents at mucosal surfaces. It is a serum marker that is used routinely in gynecologic practice to monitor patients with ovarian cancer. Most biochemical studies have concluded that MUC16 is a high molecular mass glycoprotein, although estimates of its size range from 200 to 2000 kDa with smaller “subunits” being described by some investigators. The antibody recognizes the C-term of MUC16.