

Human TGF- α Antibody Pair Set

Catalog No. E-KAB-0131

Applications

ELISA

Synonyms TGFA, TFGA

Kit components & Storage

| Title | Specifications | Storage |
|---|---------------------|---|
| Human TGF- α Capture Antibody | 1 vial, 100 μ g | Store at -20°C for one year. Avoid freeze / thaw cycles. |
| Human TGF- α Detection Antibody (Biotin) | 1 vial, 50 μ L | Store at -20°C for one year. Avoid freeze / thaw cycles. |

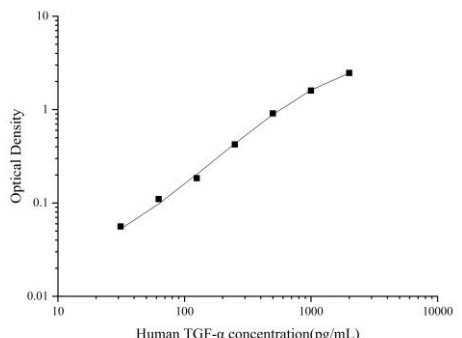
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

| Items | | Characteristic (E-KAB-0131) | |
|-----------------------|---------------|--|---|
| | | Human TGF- α Capture Antibody | Human TGF- α Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Recombinant Human TGF- α protein | Recombinant Human TGF- α protein |
| | Swissprot | P01135 | |
| 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 TGF- α in ELISAs. | |

Applications

Human TGF- α Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images | | | | | | | | | | |
|---|------------------------------------|---|---|---|-----------------|----|------|-----|-----|------|-----|-------|-----|
| ELISA Capture | 0.5-4 μ g/mL | Human TGF- α Capture Antibody |  <p>The graph is a log-log plot. The y-axis is labeled 'Optical Density' and ranges from 0.01 to 10. The x-axis is labeled 'Human TGF-α concentration(pg/mL)' and 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 TGF-α and the optical density.</p> <table border="1"> <caption>Approximate data points from the standard curve</caption> <thead> <tr> <th>Human TGF-α 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 TGF- α concentration (pg/mL) | Optical Density | 10 | 0.05 | 100 | 0.2 | 1000 | 0.8 | 10000 | 3.0 |
| Human TGF- α concentration (pg/mL) | Optical Density | | | | | | | | | | | | |
| 10 | 0.05 | | | | | | | | | | | | |
| 100 | 0.2 | | | | | | | | | | | | |
| 1000 | 0.8 | | | | | | | | | | | | |
| 10000 | 3.0 | | | | | | | | | | | | |
| ELISA Detection | 1:1000-1:10000 | Human TGF- α Detection Antibody (Biotin) | | | | | | | | | | | |

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

Background

TGF alpha is a mitogenic polypeptide that is able to bind to the EGF receptor/EGFR and to act synergistically with TGF beta to promote anchorage-independent cell proliferation in soft agar.