

Human TFR1 Antibody Pair Set

| | | | |
|--------------------|---|---------------------|-------|
| Catalog No. | E-KAB-0272 | Applications | ELISA |
| Synonyms | TFRC, CD71, T9, TFR, TFR1, TR, TRFR, p90, IMD46, transferrin receptor | | |

Kit components & Storage

| Title | Specifications | Storage |
|--|----------------|--|
| Human TFR1 Capture Antibody | 1 vial, 100 µg | Store at -20℃ for one year. Avoid freeze / thaw cycles. |
| Human TFR1 Detection Antibody (Biotin) | 1 vial, 50 µL | Store at -20℃ for one year. Avoid freeze / thaw cycles. |

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

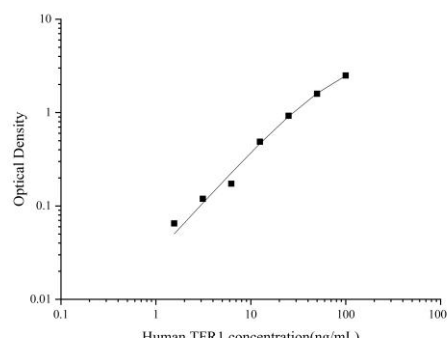
Product Information

| Items | | Characteristic (E-KAB-0272) | |
|-----------------------|---------------|--|---|
| | | Human TFR1 Capture Antibody | Human TFR1 Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Recombinant Human TFR1 protein | Recombinant Human TFR1 protein |
| | Swissprot | P02786 | |
| 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 or G | Protein A or G |
| | Specificity | Detects Human TFR1 in ELISAs. | |

For Research Use Only

Applications

Human TFR1 Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images | | | | | | | | | | | | | | | | |
|----------------------------------|------------------------------------|--|--|----------------------------------|-----------------|---|------|---|-----|---|-----|----|-----|----|-----|----|-----|-----|-----|
| ELISA Capture | 0.5-4µg/mL | Human TFR1 Capture Antibody |  <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Human TFR1 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> | Human TFR1 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 |
| Human TFR1 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 | Human TFR1 Detection Antibody (Biotin) | | | | | | | | | | | | | | | | | |

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

Background

CD71, also known as transferrin receptor protein 1 (TfR1), is a transmembrane glycoprotein composed of two disulfide-linked monomers, each of 90 kDa molecular weight. Each monomer binds one holo-transferrin molecule creating an iron-Tf-TfR complex which enters the cell by endocytosis. CD71 is present on actively proliferating cells and is essential for iron transport into proliferating cells.

For Research Use Only