

## Mouse KIM-1 Antibody Pair Set

|                    |  |                     |       |
|--------------------|--|---------------------|-------|
| <b>Catalog No.</b> | E-KAB-0086   | <b>Applications</b> | ELISA |
| <b>Synonyms</b>    | HAVCR1, HAVCR, HAVCR-1, KIM-1, KIM1, TIM, TIM-1, TIM1, TIMD-1, TIMD1 |                     |       |

### Kit components & Storage

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

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

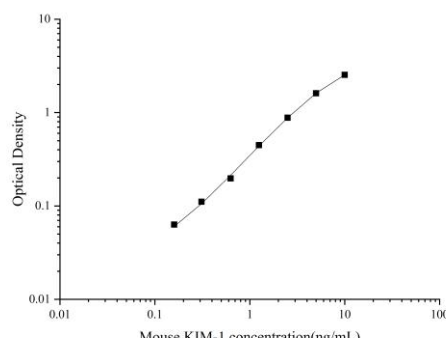
### Product Information

| Items                 |               | Characteristic (E-KAB-0086)                      |   |
|-----------------------|---------------|--|---|
|                       |               | Mouse KIM-1 Capture Antibody                     | Mouse KIM-1 Detection Antibody<br>(Biotin)                              |
| Immunogen Information | Immunogen     | Recombinant Mouse KIM-1 protein                  | Recombinant Mouse KIM-1 protein   |
|                       | Swissprot     | Q5QNS5   |   |
| Product details       | Reactivity    | Mouse  | Mouse   |
|                       | 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 Mouse KIM-1 in ELISAs.                   |   |

### For Research Use Only

## Applications

Mouse KIM-1 Sandwich ELISA Assay:

|                                   | Recommended Concentration/Dilution | Reagent                                 | Images  |                                   |                 |     |      |     |     |     |     |   |     |   |     |   |     |    |     |
|-----------------------------------|------------------------------------|---|---|-----------------------------------|-----------------|-----|------|-----|-----|-----|-----|---|-----|---|-----|---|-----|----|-----|
| ELISA Capture                     | 0.5-4μg/mL                         | Mouse KIM-1 Capture Antibody            |  <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Mouse KIM-1 concentration (ng/mL)</th><th>Optical Density</th></tr></thead><tbody><tr><td>0.1</td><td>0.05</td></tr><tr><td>0.2</td><td>0.1</td></tr><tr><td>0.5</td><td>0.2</td></tr><tr><td>1</td><td>0.4</td></tr><tr><td>2</td><td>0.8</td></tr><tr><td>5</td><td>1.5</td></tr><tr><td>10</td><td>2.5</td></tr></tbody></table> | Mouse KIM-1 concentration (ng/mL) | Optical Density | 0.1 | 0.05 | 0.2 | 0.1 | 0.5 | 0.2 | 1 | 0.4 | 2 | 0.8 | 5 | 1.5 | 10 | 2.5 |
| Mouse KIM-1 concentration (ng/mL) | Optical Density                    |   |   |                                   |                 |     |      |     |     |     |     |   |     |   |     |   |     |    |     |
| 0.1                               | 0.05                               |   |   |                                   |                 |     |      |     |     |     |     |   |     |   |     |   |     |    |     |
| 0.2                               | 0.1                                |   |   |                                   |                 |     |      |     |     |     |     |   |     |   |     |   |     |    |     |
| 0.5                               | 0.2                                |   |   |                                   |                 |     |      |     |     |     |     |   |     |   |     |   |     |    |     |
| 1                                 | 0.4                                |   |   |                                   |                 |     |      |     |     |     |     |   |     |   |     |   |     |    |     |
| 2                                 | 0.8                                |   |   |                                   |                 |     |      |     |     |     |     |   |     |   |     |   |     |    |     |
| 5                                 | 1.5                                |   |   |                                   |                 |     |      |     |     |     |     |   |     |   |     |   |     |    |     |
| 10                                | 2.5                                |   |   |                                   |                 |     |      |     |     |     |     |   |     |   |     |   |     |    |     |
| ELISA Detection                   | 1:1000-1:10000                     | Mouse KIM-1 Detection Antibody (Biotin) |   |                                   |                 |     |      |     |     |     |     |   |     |   |     |   |     |    |     |

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

## Background

KIM-1, also known as Kidney Injury Molecule 1 and Hepatitis A virus cellular receptor 1 homolog (HAVcr-1), or T-cell immunoglobulin and mucin domain 1 (TIM-1) is a 283 amino acid protein that contains an N-terminal immunoglobulin-like domain and is encoded by the HAVCR1 gene. KIM-1 is a single-pass type 1 membrane protein has been identified as a receptor for hepatitis A virus. The TIM gene family participates in host immune response. Urinary KIM-1 levels are elevated in nephropathy and is thought to be a biomarker for renal damage.