

## Mouse IP-10/CXCL10 Antibody Pair Set

|                    |  |                     |       |
|--------------------|--|---------------------|-------|
| <b>Catalog No.</b> | E-KAB-0552                               | <b>Applications</b> | ELISA |
| <b>Synonyms</b>    | C7;IFI10;INP10;SCYB10;crg-2;gIP-10;mob-1 |                     |       |

### Kit components & Storage

| Title  | Specifications | Storage   |
|--|----------------|---|
| Mouse IP-10/CXCL10 Capture Antibody            | 1 vial, 100 µg | Store at -20°C for one year.<br>Avoid freeze/thaw cycles. |
| Mouse IP-10/CXCL10 Detection Antibody (Biotin) | 1 vial, 50 µL  | Store at -20°C for one year.<br>Avoid freeze/thaw cycles. |

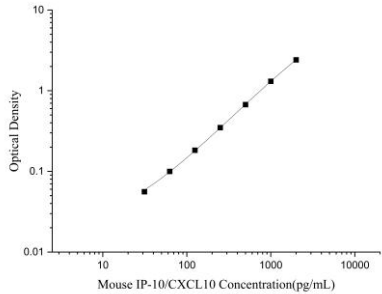
**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

### Product Information

| Items                 |               | Characteristic (E-KAB-0552)                      |   |
|-----------------------|---------------|--|---|
|                       |               | Mouse IP-10/CXCL10 Capture Antibody              | Mouse IP-10/CXCL10 Detection Antibody (Biotin)                          |
| Immunogen Information | Immunogen     | Recombinant Mouse IP-10/CXCL10 protien           | Recombinant Mouse IP-10/CXCL10 protien                                  |
|                       | Swissprot     | P17515   |   |
| Product details       | Reactivity    | Mouse  | Mouse   |
|                       | Host          | Goat   | Goat  |
|                       | Conjugation   | Unconjugated                                     | Biotin  |
|                       | Concentration | 0.5 mg/mL  | /   |
|                       | Buffer        | PBS with 0.04% Proclin 300; 50% glycerol; pH 7.5 | PBS with 0.04% Proclin 300; 1% protective protein; 50% glycerol; pH 7.5 |
|                       | Purify        | Antigen Affinity                                 | Antigen Affinity  |
|                       | Specificity   | Detects Mouse IP-10/CXCL10 in ELISAs.            |   |

## Applications

Mouse IP-10/CXCL10 Sandwich ELISA Assay:

|                 | Recommended Concentration/Dilution | Reagent  | Images   |
|-----------------|------------------------------------|--|--|
| ELISA Capture   | 0.5-4 µg/mL                        | Mouse IP-10/CXCL10 Capture Antibody            |  |
| ELISA Detection | 1:1000-1:10000                     | Mouse IP-10/CXCL10 Detection Antibody (Biotin) |  |

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

## Background

Pro-inflammatory cytokine that is involved in a wide variety of processes such as chemotaxis, differentiation, and activation of peripheral immune cells, regulation of cell growth, apoptosis and modulation of angiostatic effects. Plays thereby an important role during viral infections by stimulating the activation and migration of immune cells to the infected sites. Mechanistically, binding of CXCL10 to the CXCR3 receptor activates G protein-mediated signaling and results in downstream activation of phospholipase C-dependent pathway, an increase in intracellular calcium production and actin reorganization. In turn, recruitment of activated Th1 lymphocytes occurs at sites of inflammation. Activation of the CXCL10/CXCR3 axis also plays an important role in neurons in response to brain injury for activating microglia, the resident macrophage population of the central nervous system, and directing them to the lesion site. This recruitment is an essential element for neuronal reorganization.