

Rat IL-18 Antibody Pair Set

| | | | |
|--------------------|---|---------------------|-------|
| Catalog No. | E-KAB-0103 | Applications | ELISA |
| Synonyms | IL18, IGIF, IL-1g, IL-1F4, Interferon-gamma-inducing factor | | |

Kit components & Storage

| Title | Specifications | Storage |
|---------------------------------------|----------------|---|
| Rat IL-18 Capture Antibody | 1 vial, 100 µg | Store at -20°C for one year. Avoid freeze / thaw cycles. |
| Rat IL-18 Detection Antibody (Biotin) | 1 vial, 50 µL | Store at -20°C for one year. Avoid freeze / thaw cycles. |

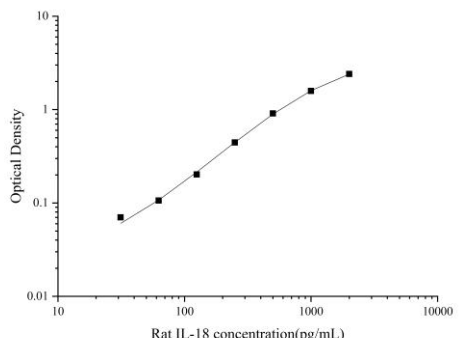
Note: Centrifuge before opening to ensure complete recovery of vial contents.

Product Information

| Items | | Characteristic (E-KAB-0103) | |
|-----------------------|---------------|--|---|
| | | Rat IL-18 Capture Antibody | Rat IL-18 Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Recombinant Rat IL-18 protein | Recombinant Rat IL-18 protein |
| | Swissprot | P97636 | |
| Product details | Reactivity | Rat | Rat |
| | 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 Rat IL-18 in ELISAs. | |

Applications

Rat IL-18 Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images |
|-----------------|------------------------------------|---------------------------------------|---|
| ELISA Capture | 0.5-4µg/mL | Rat IL-18 Capture Antibody |  |
| ELISA Detection | 1:1000-1:10000 | Rat IL-18 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 primarily involved in epithelial barrier repair, polarized T-helper 1 (Th1) cell and natural killer (NK) cell immune responses. Upon binding to IL18R1 and IL18RAP, forms a signaling ternary complex which activates NF-kappa-B, triggering synthesis of inflammatory mediators. Synergizes with IL12/interleukin-12 to induce IFNG synthesis from T-helper 1 (Th1) cells and natural killer (NK) cells. Involved in transduction of inflammation downstream of pyroptosis: its mature form is specifically released in the extracellular milieu by passing through the gasdermin-D (GSDMD) pore.