

Rat IL-1 α Antibody Pair Set

| | | | |
|--------------------|---|---------------------|-------|
| Catalog No. | E-KAB-0367 | Applications | ELISA |
| Synonyms | IL1A, IL1-A, IL1, IL1F1, Preinterleukin 1 Alpha, Hematopoietin-1, Pro-Interleukin-1-Alpha | | |

Kit components & Storage

| Title | Specifications | Storage |
|---|---------------------|---|
| Rat IL-1 α Capture Antibody | 1 vial, 100 μ g | Store at -20°C for one year. Avoid freeze / thaw cycles. |
| Rat IL-1 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.

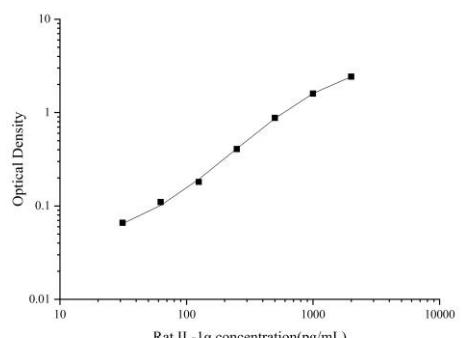
Product Information

| Items | | Characteristic (E-KAB-0367) | |
|-----------------------|---------------|--|---|
| | | Rat IL-1 α Capture Antibody | Rat IL-1 α Detection Antibody (Biotin) |
| Immunogen Information | Immunogen | Recombinant Rat IL-1 α protein | Recombinant Rat IL-1 α protein |
| | Swissprot | P16598 | |
| Product details | Reactivity | Rat | Rat |
| | Host | Mouse | 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 | Protein A or G | Antigen Affinity |
| | Specificity | Detects Rat IL-1 α in ELISAs. | |

For Research Use Only

Applications

Rat IL-1 α Sandwich ELISA Assay:

| | Recommended Concentration/Dilution | Reagent | Images | | | | | | | | | | |
|---------------------------------|------------------------------------|---------------------------------------|--|---------------------------------|-----------------|----|------|-----|-----|------|-----|-------|----|
| ELISA Capture | 0.5-4μg/mL | Rat IL-1α Capture Antibody |  <table><caption>Approximate data points from the standard curve</caption><thead><tr><th>Rat IL-1α 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>1.5</td></tr><tr><td>10000</td><td>10</td></tr></tbody></table> | Rat IL-1α concentration (pg/mL) | Optical Density | 10 | 0.05 | 100 | 0.2 | 1000 | 1.5 | 10000 | 10 |
| Rat IL-1α concentration (pg/mL) | Optical Density | | | | | | | | | | | | |
| 10 | 0.05 | | | | | | | | | | | | |
| 100 | 0.2 | | | | | | | | | | | | |
| 1000 | 1.5 | | | | | | | | | | | | |
| 10000 | 10 | | | | | | | | | | | | |
| ELISA Detection | 1:1000-1:10000 | Rat IL-1α Detection Antibody (Biotin) | | | | | | | | | | | |

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

Background

The protein encoded by this gene is a member of the interleukin 1 cytokine family. This cytokine is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. This cytokine is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. This gene and eight other interleukin 1 family genes form a cytokine gene cluster on chromosome 2. It has been suggested that the polymorphism of these genes is associated with rheumatoid arthritis and Alzheimer's disease

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