

DESCRIPTION

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| Species Reactivity | Mouse |
| Specificity | Detects mouse IL-1ra/IL-1F3 in ELISAs and Western blots. In sandwich immunoassays, approximately 45% cross-reactivity with recombinant rat IL-1ra is observed and less than 1% cross-reactivity with recombinant human IL-1ra, recombinant porcine IL-1ra, and recombinant equine IL-1ra is observed. |
| Source | Polyclonal Goat IgG |
| Purification | Antigen Affinity-purified |
| Immunogen | <i>E. coli</i> -derived recombinant mouse IL-1ra/IL-1F3 |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details. |

APPLICATIONS

Please Note: Optimal dilutions should be determined by each laboratory for each application. *General Protocols* are available in the *Technical Information* section on our website.

| | Recommended Concentration | Sample |
|---|---------------------------|--|
| Western Blot | 0.1 µg/mL | Recombinant Mouse IL-1ra/IL-1F3 (Catalog # 480-RM) |
| Mouse IL-1ra/IL-1F3 Sandwich Immunoassay | | Reagent |
| ELISA Capture | 0.2-0.8 µg/mL | Mouse IL-1ra/IL-1F3 Antibody (Catalog # AF-480-NA) |
| ELISA Detection | 0.1-0.4 µg/mL | Mouse IL-1ra/IL-1F3 Biotinylated Antibody (Catalog # BAF480) |
| Standard | | Recombinant Mouse IL-1ra/IL-1F3 (Catalog # 480-RM) |

PREPARATION AND STORAGE

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| Reconstitution | Reconstitute at 0.2 mg/mL in sterile PBS. |
| Shipping | The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. |
| Stability & Storage | <p>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</p> <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution. |

BACKGROUND

IL-1ra was originally isolated from the urine of patients with monocytic leukemia and has also been purified from adherent monocytes. The naturally-occurring, fully glycosylated form has an apparent molecular weight of about 25,000 Daltons. The protein shows 26% amino acid homology to IL-1β and 19% homology to IL-1α. It will compete with either factor for receptor binding, but does not interact with either one. Human IL-1ra will bind to both types of IL-1 receptor (I and II) on human cells. In mouse, IL-1 RII does not bind IL-1ra. IL-1ra has been shown to block the inflammatory responses induced by IL-1 both *in vitro* and *in vivo*. Pre-clinical and clinical studies were done to test possible therapeutic applications for IL-1ra in the treatment of sepsis, rheumatoid arthritis and chronic myelogenous leukemia.