

Mouse IL-1ra/IL-1F3 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF-480-NA

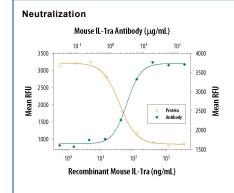
| DESCRIPTION | | | |
|--------------------|--|--|--|
| Species Reactivity | Mouse | | |
| Specificity | Detects mouse IL-1ra/IL-1F3 in ELISAs and Western blots. In sandwich ELISAs, approximately 45% cross-reactivity with recombinant r IL-1ra/IL-1F3 and less than 1% cross-reactivity with recombinant human IL-1ra/IL-1F3, recombinant porcine IL-1ra/IL-1F3, and recombin equine IL-1ra/IL-1F3 is observed. | | |
| Source | Polyclonal Goat IgG | | |
| Purification | Antigen Affinity-purified | | |
| Immunogen | E. coli-derived recombinant mouse IL-1ra/IL-1F3 | | |
| Endotoxin Level | <0.10 EU per 1 µg of the antibody by the LAL method. | | |
| Formulation | Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. | | |
| | | | |

APPLICATIONS

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

| 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) | |
| Neutralization | Measured by its ability to neutralize IL-1ra/IL-1F3 inhibition of IL-1α/IL-1F1-dependent proliferation in the D10.G4.1 mouse helper T cell line [Symons, J.A. <i>et al.</i> (1987) in Lymphokines and Interferons, a Practical Approach. Clemens, M.J. <i>et al.</i> (eds): IRL Press. 272]. The Neutralization Dose (ND ₅₀) is typically 1-5 μg/mL in the presence of 150 ng/mL Recombinant Mouse IL-1ra/IL-1F3, 50 pg/mL Recombinant Human IL-1α/IL-1F1 and 1.25 μg/mL concanavalin A | | |

DATA



IL-1ra/IL-1F3 Inhibition of IL-1α/IL-1F1-dependent Cell Proliferation and Neutralization by Mouse IL-1ra/IL-1 F 3 Antibody. Recombinant Mouse IL-1ra/IL-1 F3 (Catalog # 480-RM) inhibits Recombinant Human IL-1 α /IL-1F1 (Catalog # 200-LA) induced proliferation in the D10.G4.1 mouse helper T cell line in a dose-dependent manner (orange line). Inhibition of Recombinant Human IL-1 α /IL-1F1 (50 pg/mL) activity elicited by Recombinant Mouse L-1ra/IL-1F3 (150 ng/mL) is neutralized (green line) by increasing concentrations of Goat Anti-Mouse IL-1ra/IL-1F3 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-480-NA). The ND₅₀ is typically 1-5 µg/mL in the presence of concanavalin A (1.25 μg/mL).

PREPARATION AND STORAGE

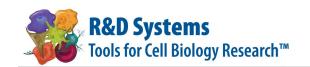
Reconstitution Reconstitute at 0.2 mg/mL in sterile PBS.

Shipping The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Stability & Storage Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month from date of receipt, 2 to 8 °C, reconstituted.
- 6 months from date of receipt, -20 to -70 °C, reconstituted.

RED SYSTEMS*



Mouse IL-1ra/IL-1F3 Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF-480-NA

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. The recombinant, non-glycosylated form of IL-1ra blocks binding of IL-1 to its receptor equally as well as the naturally-occurring, glycosylated form. The 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.

Rev. 3/31/2011 Page 2 of 2

