

Mouse IL-1 RII Antibody

Antigen Affinity-purified Polyclonal Goat IgG Catalog Number: AF563

DESCRIPTION		
Species Reactivity	Mouse	
Specificity	Detects mouse IL-1 RII in direct ELISAs and Western blots.	
Source	Polyclonal Goat IgG	
Purification	Antigen Affinity-purified	
Immunogen	S. frugiperda insect ovarian cell line Sf 21-derived recombinant mouse IL-1 RII Phe14-Glu355 (predicted) Accession # P27931	
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 µm filtered solution in PBS.	

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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-1 RII Fc Chimera (Catalog # 563-MR)	
Flow Cytometry	0.25 μg/10 ⁶ cells	See Below	
Immunohistochemistry	5-15 μg/mL	See Below	
CyTOF-ready	Ready to be labeled using established of conjugation.	eady to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with onjugation.	

Detection of IL-1 RII in EL-4 Mouse Cell Line by Flow Cytometry. EL-4 mouse lymphoblast cell line was stained with Goat Anti-Mouse IL-1 RII Antigen Affinity-purified Polyclonal Antibody (Catalog # AF-563, filled histogram) or control antibody (Catalog # Catalog # AB-108-C, open histogram), followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # Catalog # F0108).

Immunohistochemistry

IL-1 RII in Mouse Spleen. IL-1 RII was detected in perfusion fixed frozen sections of mouse spleen using Goat Anti-Mouse IL-1 RII Antigen Affinity-purified Polyclonal Antibody (Catalog # AF563) at 5 μg/mL overnight at 4 °C. Tissue was stained using the Anti-Goat HRP-DAB Cell & Tissue Staining Kit (brown; Catalog # Catalog # CTS008) and counterstained with hematoxylin (blue). Specific staining was localized to cytoplasm. View our protocol for Chromogenic IHC Staining of Frozen Tissue Sections.

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.

*Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C

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, 2 to 8 °C under sterile conditions after reconstitution.
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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BACKGROUND

Two distinct types of receptors that bind the pleiotropic cytokines IL-1α and IL-1β have been described. The IL-1 receptor type I is an 80 kDa transmembrane protein that is expressed predominantly by T cells, fibroblasts, and endothelial cells. IL-1 receptor type II is a 68 kDa transmembrane protein found on B lymphocytes, neutrophils, monocytes, large granular leukocytes and endothelial cells. Both receptors are members of the immunoglobulin superfamily and show approximately 28% sequence similarity in their extracellular domains. The two receptor types do not heterodimerize in a receptor complex. Mouse IL-1 RII shares 59% amino acid sequence homology with human IL-1 RII in their extracellular domains.

An IL-1 receptor accessory protein (1) that can heterodimerize with the type I receptor in the presence of IL-1α or IL-1β but not IL-1ra, was identified. This type I receptor complex appears to mediate all the known IL-1 biological responses. The receptor type II has a short cytoplasmic domain and does not transduce IL-1 signals. In addition to the membrane-bound form of IL-1 RII, a naturally-occurring soluble form of IL-1 RII has been described. It has been suggested that the type II receptor, either as the membrane-bound or as the soluble form, serves as a decoy for IL-1 and inhibits IL-1 action by blocking the binding of IL-1 to the signaling type I receptor complex. Recombinant IL-1 soluble receptor type II is a potent antagonist of IL-1 action.

References:

1. Greenfeder, S. et al. (1995) J. Biol. Chem. 270:13757.

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