

# Human IL-1 RII Fluorescein-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 34141

Catalog Number: FAB663F  
100 TESTS

## DESCRIPTION

<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IL-1 RII in direct ELSAs and Western blots. When used in combination with the biotinylated human IL-1 RII affinity purified polyclonal detection antibody (Catalog # BAF263) in sandwich ELISAs, no significant cross-reactivity or interference was observed with recombinant human (rh) IL-1ra, rhIL-1 RI, recombinant mouse IL-1ra, or recombinant rat IL-1ra.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 34141
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human IL-1 RII Phe14-Glu343 (Ser56Gly and Glu297Gly) Accession # P27930
<b>Conjugate</b>	Fluorescein Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

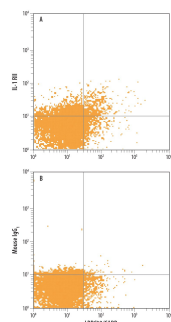
## APPLICATIONS

**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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Flow Cytometry</b>	10 µL/10 <sup>6</sup> cells	See Below

## DATA

### Flow Cytometry



**Detection of IL-1 RII in Human PBMCs stimulated to induce Tregs by Flow Cytometry.** Human peripheral blood mononuclear cells (PBMCs), stimulated to induce Regulatory T Cells (Tregs) and gated on CD4<sup>+</sup>, were treated with 10 µg/mL Anti-CD3, 5 µg/mL Anti-CD28, 10 ng/mL Recombinant Human TGF-β1 (Catalog # 240-B), and 20 ng/mL Recombinant Human IL-2 (Catalog # 202-IL) for 48 hours and stained with Rat Anti-Human LRR32/GARP APC-conjugated Monoclonal Antibody and either (A) Mouse Anti-Human IL-1 RII Fluorescein-conjugated Monoclonal Antibody (Catalog # FAB663F) or (B) Mouse IgG<sub>1</sub> Fluorescein Isotype Control (Catalog # IC002F). View our protocol for [Staining Membrane-associated Proteins](#).

## PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

## 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. An IL-1 receptor accessory protein that can heterodimerize with the type I receptor in the presence of IL-1α or IL-1β, but not IL-1ra, was identified (1). 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.