

Human IL-1 RII APC-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 34141 Catalog Number: FAB663A 100 Tests

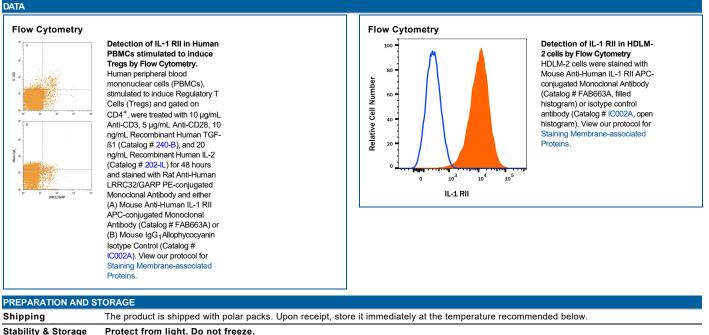
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human IL-1 RII in direct ELSAs and Western blots. When used in combination with the biotinylated human IL-1 RII affinity purified polyclonal detection antibody (Catalog # BAF263) in sandwich ELISAs, no significant cross-reactivity or interference was observed with recombinant human (rh) IL-1ra, rhIL-1 RI, recombinant mouse IL-1ra, or recombinant rat IL-1ra.		
Source	Monoclonal Mouse IgG ₁ Clone # 34141		
Purification	Protein A or G purified from ascites		
Immunogen	S. <i>frugiperda</i> insect ovarian cell line <i>Sf</i> 21-derived recombinant human IL-1 RII Phe14-Glu343 (Ser56Gly and Glu297Gly) Accession # P27930		
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm		
Formulation	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 Shee		

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.

(SDS) for additional information and handling instructions.

	Recommended Concentration	Sample
Flow Cytometry	10 µL/10 ⁶ cells	See Below



stability & Storage	Protect from	light. Do	o not freeze.

12 months from date of receipt, 2 to 8 °C as supplied.

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BACKGROUND

Two distinct types of receptors that bind the pleiotropic cytokines IL-1 α and IL-1 β 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-1 α or IL-1 β , but not IL-1 α , 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-1RII, a naturally-occurring soluble form of 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.