

Human IL-1 RII PE-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 34141 Catalog Number: FAB663P 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	<i>S. frugiperda</i> insect ovarian cell line <i>Sf</i> 21-derived recombinant human IL-1 RII Phe14-Glu343 (Ser56Gly and Glu297Gly) Accession # P27930		
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 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 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.				
	Recommended	Sample		
	Concentration			
Flow Cytometry	10 µL/10 ⁶ cells	See Below		



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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-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 I receptor complex. Recombinant IL-1 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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