

Human IL-18 Rβ/IL-1 R7 PE-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 132029

Catalog Number: FAB118P 100 TESTS, 25 TESTS

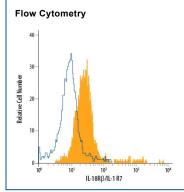
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human IL-18 Rβ/IL-1 R7 in direct ELISAs and Western blots. In direct ELISAs, 15% cross-reactivity with recombinant human		
	(rh) IL-1 RII is observed and 2% cross-reactivity with rhIL-1 R9 is observed. Also in direct ELISAs, no cross-reactivity with rhIL-1 RI,		
	rhIL-1 RacP/IL-1 R3, rhIL-1 R4, rhIL-18 Rα/IL-1 R5, rhIL-1 R6, rhIL-1 R8, or recombinant mouse (rm) IL-18 Rβ/IL-1 R7 is observed. In Western blots, approximately 100% cross-reactivity with rmIL-18 Rβ is observed and no cross-reactivity with rhIL-18 Rα/IL-1 R5,		
	rhIL-1 RacP/IL-1 R3, rhIL-1 RI, rhIL-1 RII, or rhIL-1 Rrp2/IL-1 R6 is observed.		
Source	Monoclonal Mouse IgG _{2B} Clone # 132029		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-18 Rβ/IL-1 R7		
	Met1-Arg356		
	Accession # O95256		
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 Concentration	Sample
Flow Cytometry	10 μL/10 ⁶ cells	See Below

DATA



Detection of IL-18 Rβ/IL-1 R7 in KG-1 Human Cell Line by Flow Cytometry. KG-1 human acute myelogenous leukemia cell line was stained with Mouse Anti-Human IL-18 Rβ/IL-1 R7 PE-conjugated Monoclonal Antibody (Catalog # FAB118P, filled histogram) or isotype control antibody (Catalog # IC0041P, open histogram). View our protocol for Staining Membrane-associated Proteins.

PREPARATION AND STORAGE

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

Stability & Storage

Protect from light. Do not freeze

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

BACKGROUND

IL-18, originally described as an interferon- γ inducing factor (IGIF), is a member of the IL-1 family of cytokines that has multiple immunoregulatory functions. It has potent IFN- γ inducing activities and plays a key role in the activation of T helper type 1 (Th1) responses. The functional IL-18 receptor complex consists of two components, the IL-18 R α (IL-1 R5) and IL-18 R β (also termed IL-1 R7 and AcPL) subunits. Both subunits are members of the IL-1 receptor superfamily. Although IL-18 R α by itself binds IL-18 with low-affinity and IL-18 R β does not bind IL-18 in vitro, co-expression of IL-18 R α and IL-18 R β is required for high-affinity binding and IL-18 responsiveness. Human IL-18 R β cDNA encodes a 599 amino acid (aa) residue precursor type I membrane protein with a 14 aa signal peptide, a 342 aa extracellular region containing three immunoglobulin-like domains, a single transmembrane domain and a 222 aa cytoplasmic domain. Human and mouse IL-18 R β share 65% aa sequence identity. The expression of IL-18 R β parallels that of IL-18 R α and is detected in numerous tissues including lung, spleen, leukocytes and colon.

References:

- 1. Born, T.L. et al. (1998) J. Biol. Chem. 273:29445.
- 2. Okamura, H. et al. (2000) in Cytokine Reference, Vol. 2:1605, Academic Press.



