

Human IL-18 Rβ/IL-1 R7 Alexa Fluor® 750-conjugated Antibody

Monoclonal Mouse IgG_{2B} Clone # 132029

Catalog Number: FAB118S

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 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 R1, rhIL-1 RII, or rhIL-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	Alexa Fluor 750 Excitation Wavelength: 749 nm Emission Wavelength: 775 nm			
Formulation	Supplied 0.2 mg/mL 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 (SDS) for additional information and handling instructions.			

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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		
Flow Cytometry	0.25-1 µg/10 ⁶ cells	KG-1 human acute myelogenous leukemia cell line		

PREPARATION AND STORAGE

Shipping	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
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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-y inducing factor (IGIF), is a member of the IL-1 family of cytokines that has multiple immunoregulatory functions. It has potent IFN-y 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 Ra (IL-1 R5) and IL-18 Rβ (also termed IL-1 R7 and AcPL) subunits. Both subunits are members of the IL-1 receptor superfamily. Although IL-18 Rα by itself binds IL-18 with low-affinity and IL-18 Rβ does not bind IL-18 in vitro, co-expression of IL-18 Rα and IL-18 Rβ is required for high-affinity binding and IL-18 responsiveness. Human IL-18 Rβ 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 Rβ share 65% as sequence identity. The expression of IL-18 R\(\text{p}\) parallels that of IL-18 R\(\text{a}\) 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.
- Okamura, H. et al. (2000) in Cytokine Reference, Vol. 2:1605, Academic Press.

PRODUCT SPECIFIC NOTICES

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