Human IL-18 Rα/IL-1 R5 APC-conjugated Antibody

Monoclonal Mouse IgG_1 Clone # 70625

Catalog Number: FAB840A

100 TESTS, 25 TESTS

DESCRIPTION

Species Reactivity	Human
Specificity	Detects human IL-18 Rα/IL-1 R5 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) IL-1 RI, rhIL-1 RII, rhIL−1 R3, rhIL-1 R4, rhIL-1 R6, rhIL-1 R7, rhIL-1 R8, rhIL-1 R9, rhSIGIRR or recombinant mouse IL-18 Rα is observed.
Source	Monoclonal Mouse IgG_1 Clone # 70625
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL−18 Rα/IL-1 R5 Glu20-Arg329 Accession # Q13478
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 Sheet (SDS) for additional information and handling instructions.

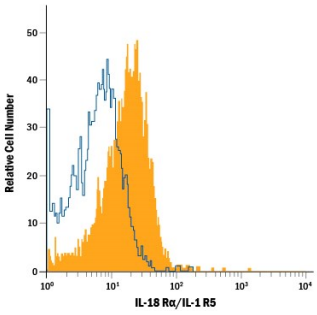
APPLICATIONS

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

Flow Cytometry



Detection of IL-18 Rα/IL-1 R5 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) treated with PHA (5 µg/ml) and Recombinant Human IL-2 (Catalog # 202-IL;10 ng/ml) for 2 days were stained with Mouse Anti-Human IL-18 Rα/IL-1 R5 APC-conjugated Monoclonal Antibody (Catalog # FAB840A, filled histogram) or isotype control antibody (Catalog # IC002A, 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

Interleukin 18 (IL-18) is a member of the IL-1 family of cytokines and shares numerous immunoregulatory functions with IL-12. The functional IL-18 receptor complex is composed of two subunits designated IL-18 Rα (also known as IL-1 R5 and IL-1 Rrp) and IL-18 Rβ (also known as IL-1 R7 and AcPL). Both IL-18 Rα and IL-18 Rβ belong to 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 R cDNA encodes a 541 amino acid (aa) precursor type I membrane protein with a hydrophobic signal, an extracellular domain comprised of three immunoglobulin-like domains, a transmembrane domain and a cytoplasmic region of approximately 200 aa. Human and mouse IL-18 R share 65% amino acid sequence homology. IL-18 R is widely expressed in numerous tissues including spleen, thymus, leukocyte, liver, lung, heart, small and large intestine, prostate and placenta.

References:

1. Parnet, P. *et al.* (1996) J. Biol. Chem. **271**:3967.
2. Torigoe, K. *et al.* (1997) J. Biol. Chem. **272**:25737.
3. Born, T.L. *et al.* (1998) J. Biol. Chem. **273**:29445.

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