

## Human IL-18 Rα/IL-1 R5 Alexa Fluor® 647-conjugated Antibody

Monoclonal Mouse  $IgG_1$  Clone # 70625

Catalog Number: FAB840R

100 µg

DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects Recombinant 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 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 <sub>1</sub> 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	Alexa Fluor 647 Excitation Wavelength: 650 nm Emission Wavelength: 668 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.		

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	0.25-1 μg/10 <sup>6</sup> cells	Human peripheral blood mononuclear cells treated with PHA and Recombinant Human IL-2 (Catalog # 202-IL)		

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 termed IL-1 R5 and IL-1 Rrp) and IL-18 Rβ (also termed IL-1 R7 and AcPL). Both IL-18 Rα and IL-18 Rβ belong to the IL-1 receptor superfamily. Although IL-18 R 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.
- Torigoe, K. et al. (1997) J. Biol. Chem. 272:25737.
- Born, T.L. et al. (1998) J. Biol. Chem. 273:29445.

## PRODUCT SPECIFIC NOTICES

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Rev. 2/6/2018 Page 1 of 1