

DESCRIPTION

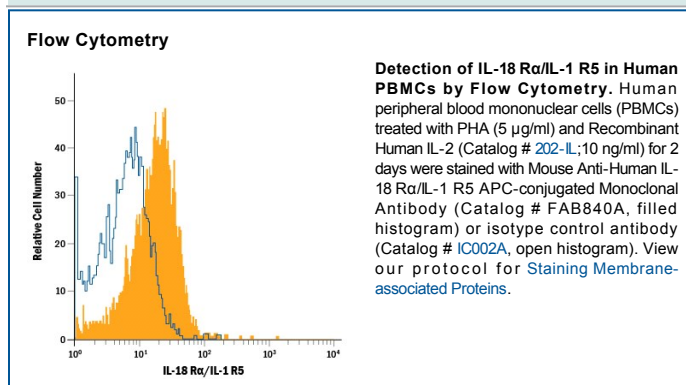
Species Reactivity	Human
Specificity	Detects human IL-18 R α /IL-1 R5 in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant human (rh) IL-1 RI, rhIL-1 RII, rhIL-1 R3, rhIL-1 R4, rhIL-1 R6, rhIL-1 R7, rhIL-1 R8, rhIL-1 R9, rhSIGIRR or recombinant mouse IL-18 R α is observed.
Source	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 R α /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 μ L/10 ⁶ cells	See Below

DATA



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. <ul style="list-style-type: none"> 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 R α (also known as IL-1 R5 and IL-1 Rrp) and IL-18 R β (also known as IL-1 R7 and AcPL). Both IL-18 R α and IL-18 R β belong to 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 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.