Mouse IL-18 Rβ/IL-1 R7 Biotinylated Antibody

Antigen Affinity-purified Polyclonal Goat IgG

Catalog Number: BAF1520

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-18 Rβ in Western blots. In Western blots, approximately 25% cross-reactivity with recombinant human (rh) IL-18 Rβ is observed, 10% cross-reactivity with rhIL-1 R9 is observed, and less than 2% cross-reactivity with recombinant mouse (rm) IL-1 R8, recombinant rat IL-1 R6, rhIL-1 R3, rmIL-1 R1, rmIL-1 RII, and rmIL-18 R is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-18 Rβ/IL-1 R7 Phe20-Glu356 Accession # Q9Z2B1
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with BSA as a carrier protein. See Certificate of Analysis for details.

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
Western Blot	0.1 µg/mL	Recombinant Mouse IL-18 Rβ/IL-1 R7

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.2 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

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-18Rα (IL-1 R5) and IL-18Rβ (also termed IL-1 R7 and AcPL) subunits. Both subunits are members of the IL-1 receptor superfamily. Although IL-18Rα by itself binds IL-18 with low-affinity and IL-18Rβ does not bind IL-18 in vitro, co-expression of IL-18Rα and IL-18Rβ is required for high-affinity binding and IL-18 responsiveness. Human IL-18Rβ cDNA encodes a 599 amino acid (aa) residue precursor type I membrane protein with a aa signal peptide, a 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% aa sequence identity. The expression of IL-18Rβ parallels that of IL-18Rα 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.

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