

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-18 R α in direct ELISAs and Western blots. In direct ELISAs, approximately 25% cross-reactivity with recombinant human IL-18 R is observed.
Source	Polyclonal Goat IgG
Purification	Antigen Affinity-purified
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-18 R α /IL-1 R5 Ser19-Gly326 Accession # Q61098
Endotoxin Level	<0.10 EU per 1 μ g of the antibody by the LAL method.
Formulation	Lyophilized from a 0.2 μ m filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μ m filtered solution in PBS.

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 μ g/mL	Recombinant Mouse IL-18 R α /IL-1 R5
Flow Cytometry	0.25 μ g/10 ⁶ cells	B6 splenocytes
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	
Neutralization	Measured by its ability to neutralize IL-18/IL-1F4-induced IFN- γ secretion in activated mouse T cells. Ahn, H.J. <i>et al.</i> (1997) J. Immunol. 159 :2125. The Neutralization Dose (ND ₅₀) is typically 0.2-0.8 μ g/mL in the presence of 0.5 ng/mL Recombinant Mouse IL-18/IL-1F4 and 0.1 ng/mL Recombinant Mouse IL-12.	

DATA

Neutralization

IFN- γ Secretion Induced by IL-18/IL-1F4 and Neutralization by Mouse IL-18 R α /IL-1 R5 Antibody. In the presence of Recombinant Mouse IL-12 (0.1 ng/mL, Catalog # [419-ML](#)), Recombinant Mouse IL-18/IL-1F4 stimulates IFN- γ secretion in activated mouse T cells in a dose-dependent manner (orange line), as measured by the Mouse IFN- γ Quantikine ELISA Kit (Catalog # [MIF00](#)). Under these conditions, IFN- γ secretion elicited by Recombinant Mouse IL-18/IL-1F4 (0.5 ng/mL) is neutralized (green line) by increasing concentrations of Mouse IL-18 R α /IL-1 R5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF856). The ND₅₀ is typically 0.2-0.8 μ g/mL.

Flow Cytometry

Detection of IL-18 R α /IL-1 R5 in B6 splenocytes by Flow Cytometry. B6 splenocytes were stained with Rat Anti-Mouse CD3 PE-conjugated Monoclonal Antibody (Catalog # [FAB4841P](#)) and either (A) Goat Anti-Mouse IL-18 R α /IL-1 R5 Antigen Affinity-purified Polyclonal Antibody (Catalog # AF856) or (B) Normal Goat IgG Control (Catalog # [AB-108-C](#)) followed by Allophycocyanin-conjugated Anti-Goat IgG Secondary Antibody (Catalog # [F0108](#)). View our protocol for [Staining Membrane-associated Proteins](#).

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. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> • 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.