**DESCRIPTION**

**Species Reactivity**  
Mouse

**Specificity**  
Detects mouse IL-18 R in direct ELISAs. In direct ELISAs, this antibody does not cross-react with recombinant mouse (rm) IL-1 R1, rmIL-1 RII, rhIL-1 R3, recombinant human (rh) IL-1 R4, rhIL-1 R5, recombinant rat IL-1 R6, rmIL-1 R7, rhIL-1 R8, rhIL-1 R9, or rmSIGIRR.

**Source**  
Monoclonal Rat IgG2A Clone # 112624

**Purification**  
Protein A or G purified from hybridoma culture supernatant

**Immunogen**  
Mouse myeloma cell line NS0-derived recombinant mouse IL-18 Rα/ Ser19-Gly326

**Accession #**  
Q61098

**Endotoxin Level**  
<0.10 EU per 1 μg of the antibody by the LAL method.

**Formulation**  
Lyophilized from a 0.2 μm 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 μm 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**

<table>
<thead>
<tr>
<th>Sample</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL</td>
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</table>

**Neutralization**

Measured by its ability to neutralize IL-18/IL-1F4-induced IFN-γ secretion in activated mouse T cells. The Neutralization Dose (ND50) is typically 0.2-0.8 μg/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 IL-18 Rα/IL-1 R5 Antibody. In the presence of Recombinant Mouse IL-12 (0.1 ng/mL, Catalog # 410-M1), 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 Rα/IL-1 R5 Monoclonal Antibody (Catalog # MAB12161). The ND50 is typically 0.2-0.8 μg/mL.

**PREPARATION AND STORAGE**

**Reconstitution**  
Reconstitute at 0.5 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.

- 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 R, also known as IL-18 R alpha, is a member of the IL-1 receptor family and has been designated IL-1 R5.

IL-18 Rα, also known as IL-18 R alpha, is a member of the IL-1 receptor family and has been designated IL-1 R5.

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