### DESCRIPTION

**Species Reactivity:** Mouse  
**Specificity:** Detects mouse IL-10 in sandwich ELISAs and Western blots. In sandwich ELISAs, less than 8% cross-reactivity with recombinant rat IL-10 and 1% cross-reactivity with recombinant cotton rat IL-10 is observed. In sandwich ELISAs, no cross-reactivity with recombinant human (rh) IL-10, recombinant mouse IL-10 R, rhIL-10 R, recombinant canine IL-10, recombinant feline IL-10, or recombinant porcine IL-10 is observed.

**Source:** Monoclonal Rat IgG  
**Clone:** JES052A5  
**Purification:** Protein A or G purified from hybridoma culture supernatant  
**Immunogen:** E. coli-derived recombinant mouse IL-10  
**Accession #:** P18893  
**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.

<table>
<thead>
<tr>
<th>Western Blot</th>
<th>Recommended Concentration</th>
<th>Sample</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mouse IL-10 Sandwich Immunoassay</td>
<td>1 µg/mL</td>
<td>See Below</td>
</tr>
<tr>
<td>ELISA Capture</td>
<td>2-8 µg/mL</td>
<td>Mouse IL-10 Antibody (Catalog # MAB417)</td>
</tr>
<tr>
<td>ELISA Detection</td>
<td>0.1-0.4 µg/mL</td>
<td>Mouse IL-10 Biotinylated Antibody (Catalog # BAF417)</td>
</tr>
<tr>
<td>Standard</td>
<td>Recombinant Mouse IL-10 (Catalog # 417-ML)</td>
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</tbody>
</table>

**Neutralization**  
Measured by its ability to neutralize IL-10-induced proliferation in the MC/9-2 mouse mast cell line. Thompson-Snipes, L. et al. (1991) J. Exp. Med. 173:507. The Neutralization Dose (ND50) is typically 0.005-0.015 µg/mL in the presence of 2.5 ng/mL Recombinant Mouse IL-10.

### DATA

#### Western Blot

Detection of Recombinant Mouse IL-10 by Western Blot. Western blot shows 25 ng of Recombinant Mouse IL-10 (Catalog # 417-ML), Recombinant Human IL-10 (Catalog # 217-ML), Recombinant Rat IL-10 (Catalog # 522-RLB), and Recombinant Human IL-26/AK155 Monomer (Catalog # 1375-IL) on PVDF Membrane. The membrane was incubated with Goat Anti-Mouse IL-10 Monoclonal Antibody (Catalog # BAF417) followed by HRP-conjugated Anti-Goat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for IL-10 at approximately 15 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 3.

#### Neutralization

Cell Proliferation Induced by IL-10 and Neutralization by Mouse IL-10 Antibody. Recombinant Mouse IL-10 (Catalog # 417-ML) stimulates proliferation in the MC/9-2 mouse mast cell line in a dose-dependent manner (orange line). Proliferation elicited by Recombinant Mouse IL-10 (2.5 ng/mL) is neutralized (green line) by increasing concentrations of Rat Anti-Mouse IL-10 Monoclonal Antibody (Catalog # MAB417). The ND50 is typically 0.005-0.015 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.  
- Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C.  
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.  
- 6 months, -20 to -70 °C under sterile conditions after reconstitution.

### BACKGROUND

Interleukin 10 (IL-10) is a pleiotropic cytokine that can exert either immunostimulatory or immunosuppressive effects on a variety of cell types. It is produced predominantly by Th2 lymphocytes and other activated lymphoid cells.