**DESCRIPTION**

**Species Reactivity**: Human/Mouse

**Specificity**: Detects human IL-12/IL-35 p35 in direct ELISAs and Western blots. Detects the p35 subunit either as part of a p40/p35 heterodimer or as a free subunit after reduction of the heterodimer. This antibody does not recognize IL-12 p40 homodimers but shows strong cross-reactivity with the p35 subunits from porcine and mouse systems.

**Source**: Monoclonal Mouse IgG, Clone # 27537

**Purification**: Protein A or G purified from ascites

**Immunogen**: S. frugiperda insect ovarian cell line Sf 21-derived recombinant human IL-12/IL-35 p35 Arg23-Ser219 Accession # P29459

**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>Recommended Concentration</th>
<th>Sample</th>
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<tbody>
<tr>
<td>Western Blot</td>
<td>1 μg/mL Recombinant Human IL-12 (Catalog # 219-IL)</td>
</tr>
<tr>
<td>Intracellular Staining by Flow Cytometry</td>
<td>2.5 μg/10⁶ cells Human peripheral blood mononuclear cells or mouse splenocytes treated with LPS, fixed with paraformaldehyde, and permeabilized with saponin</td>
</tr>
</tbody>
</table>

**CyTOF-ready**

Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.

**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.

**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**

Interleukin 12 (IL-12) and interleukin 35 (IL-35) are heterodimeric cytokines composed of α and β chains. IL-12 is composed of p35 and p40 subunits, while IL-35 is comprised of p35 paired with EBI-3 (1). In mice, IL-35 is produced by FoxP3⁺ regulatory T cells and may function as an inhibitory cytokine to suppress T cell proliferation (2). Human FoxP3⁺ Tregs do not constitutively express IL-35 (3), but expression may be induced by activated dendritic cells (4).

**References**: