

#### DESCRIPTION

<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	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.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 27537
<b>Purification</b>	Protein A or G purified from ascites
<b>Immunogen</b>	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human IL-12/IL-35 p35 Arg23-Ser219 Accession # P29459
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	Supplied 0.2 mg/mL in a saline solution containing BSA and Sodium Azide. See Certificate of Analysis for details.  *Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to the Safety Data Sheet (SDS) for additional information and handling instructions.

#### 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
<b>Intracellular Staining by Flow Cytometry</b>	0.25-1 µg/10 <sup>6</sup> cells	Human peripheral blood mononuclear cells or mouse splenocytes treated with LPS, fixed with paraformaldehyde, and permeabilized with saponin

#### PREPARATION AND STORAGE

<b>Shipping</b>	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage</b>	<b>Protect from light. Do not freeze.</b> <ul style="list-style-type: none"> <li>12 months from date of receipt, 2 to 8 °C as supplied.</li> </ul>

#### 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 EB1-3 (1). In mice, IL-35 is produced by FoxP3<sup>+</sup> regulatory T cells and may function as an inhibitory cytokine to suppress T cell proliferation (2). Human FoxP3<sup>+</sup> Tregs do not constitutively express IL-35 (3), but expression may be induced by activated dendritic cells (4).

#### References:

1. Collison, L.W. and D.A.A. Vignali (2008) *Immunol. Rev.* **226**:248.
2. Collison, L.W. *et al.* (2007) *Nature* **450**:566.
3. Bardel, E. *et al.* (2008) *J. Immunol.* **181**:6898.
4. Seyerl, M. *et al.* (2010) *Eur. J. Immunol.* **40**:321.

#### PRODUCT SPECIFIC NOTICES

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