

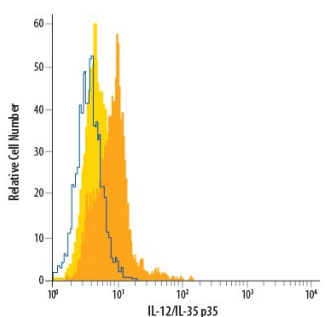
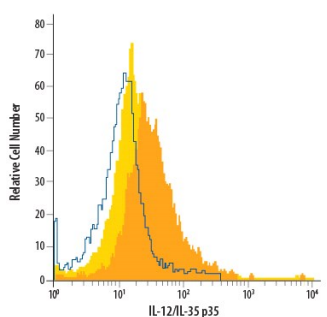
DESCRIPTION	
Species Reactivity	Human/Mouse
Specificity	Detects human IL-12/IL-35 p35 in direct ELISAs and Western blots. Detects the p35 subunit either as part of a p40/p35 heterodimer or as a free subunit after reduction of the heterodimer. This antibody does not recognize IL-12 p40 homodimers but shows strong cross-reactivity with the p35 subunits from porcine and mouse systems.
Source	Monoclonal Mouse IgG ₁ Clone # 27537
Purification	Protein A or G purified from ascites
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human IL-12/IL-35 p35 Arg23-Ser219 Accession # P29459
Conjugate	PerCP (Peridinin-chlorophyll Protein Complex) Excitation Wavelength: 482 and 564 nm Emission Wavelength: 675 nm
Formulation	Supplied 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
Intracellular Staining by Flow Cytometry	10 µL/10 ⁶ cells	See Below

DATA

<p>Intracellular Staining by Flow Cytometry</p>  <p>Detection of IL-12/IL-35 p35 in Human PBMCs by Flow Cytometry. Human peripheral blood mononuclear cells (PBMCs) either untreated (light orange filled histogram) or treated with LPS (dark orange filled histogram) were stained with Mouse Anti-Human/Mouse IL-12/IL-35 p35 PerCP-conjugated Monoclonal Antibody (Catalog # IC2191C) or isotype control antibody (Catalog # IC002C, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.</p>	<p>Intracellular Staining by Flow Cytometry</p>  <p>Detection of IL-12/IL-35 p35 in Mouse Splenocytes by Flow Cytometry. Mouse splenocytes either untreated (light orange filled histogram) or treated with LPS (dark orange filled histogram) were stained with Mouse Anti-Human/Mouse IL-12/IL-35 p35 PerCP-conjugated Monoclonal Antibody (Catalog # IC2191C) or isotype control antibody (Catalog # IC002C, open histogram). To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer (Catalog # FC004) and permeabilized with Flow Cytometry Permeabilization/Wash Buffer I (Catalog # FC005). View our protocol for Staining Intracellular Molecules.</p>
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PREPARATION AND STORAGE

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

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:

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.