

**DESCRIPTION**

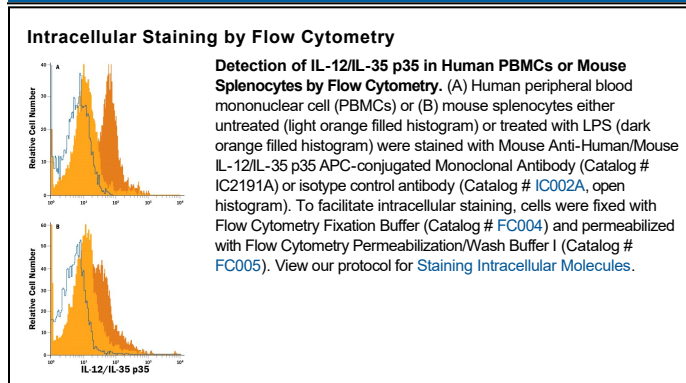
<b>Species Reactivity</b>	Human/Mouse
<b>Specificity</b>	Detects human IL-12/IL-35 p35 in direct ELISAs and Western blots. Detects the p35 subunit either as part of a p40/p35 heterodimer or as a free subunit after reduction of the heterodimer. This antibody does not recognize IL-12 p40 homodimers but 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 hybridoma culture supernatant
<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>	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	10 μL/10 <sup>6</sup> cells	See Below

**DATA**



**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**

p35 is a 34-36 kDa monomeric member of the IL-6 superfamily of molecules. It is 219 amino acids in length, and possibly contains an N-terminal 22 aa signal sequence. In any event, it does not appear to be individually secreted, and its release from cells is commonly assumed to be as part of a disulfide-linked heterodimer linked to either p40 (forming IL-12) or EB13 (forming IL-35). Multiple cell types are known to express p35, and include keratinocytes, CD138<sup>+</sup> plasma cells, naïve B cells, monocyte-derived dendritic cells, macrophages, CD86<sup>lo</sup> B7-H1<sup>hi</sup> CD206<sup>+</sup> B7-DC<sup>+</sup> tolerogenic dendritic cells, neutrophils, activated monocytes and macrophages, trophoblasts, testicular endothelial cells, and T cells, including CD4<sup>+</sup> and CD8<sup>+</sup> T helper cells, and CD4<sup>+</sup> CD25<sup>+</sup> Tregs. The presence of the subunit does not necessarily indicate function, as the p35:p40 heterodimer is associated with promoting inflammatory IFN-γ production by NK cells, while the p35:EB13 heterodimer is anti-inflammatory through its inhibition of Th17 cell development. Over aa 23-219, human p35 shares 83% and 57% aa sequence identity with pig and mouse p35, respectively.