

DESCRIPTION

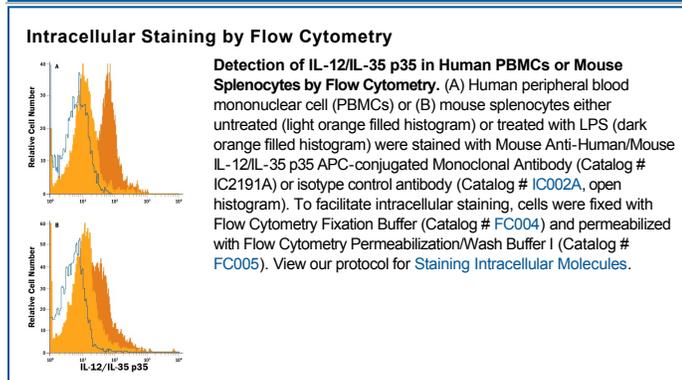
Species Reactivity	Human/Mouse
Specificity	Detects human IL-12/IL-35 p35 in direct ELISAs and Western blots. Detects the p35 subunit either as part of a p40/p35 heterodimer or as a free subunit after reduction of the heterodimer. This antibody does not recognize IL-12 p40 homodimers but shows strong 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 hybridoma culture supernatant
Immunogen	<i>S. frugiperda</i> insect ovarian cell line Sf 21-derived recombinant human IL-12/IL-35 p35 Arg23-Ser219 Accession # P29459
Conjugate	Allophycocyanin Excitation Wavelength: 620-650 nm Emission Wavelength: 660-670 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



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

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⁺ plasma cells, naïve B cells, monocyte-derived dendritic cells, macrophages, CD86^{lo} B7-H1^{hi} CD206⁺ B7-DC⁺ tolerogenic dendritic cells, neutrophils, activated monocytes and macrophages, trophoblasts, testicular endothelial cells, and T cells, including CD4⁺ and CD8⁺ T helper cells, and CD4⁺ CD25⁺ 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.