

DESCRIPTION

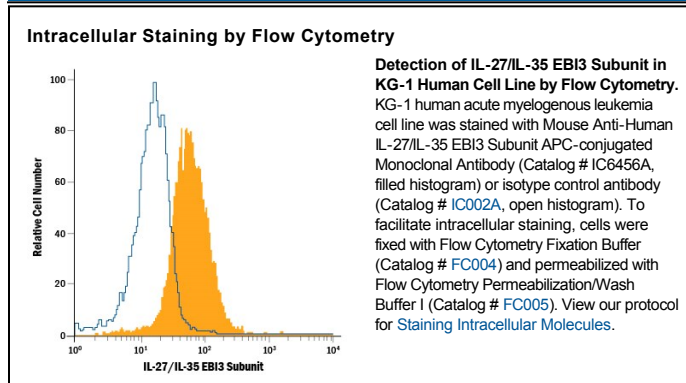
Species Reactivity	Human
Specificity	Detects human IL-27/IL-35 EB13 Subunit in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) IL-27 EB13 or rmlL-27 (EB13 + p28 heterodimer) is observed.
Source	Monoclonal Mouse IgG ₁ Clone # 607201
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-27/IL-35 EB13 Subunit Arg21-Lys229 (predicted) Accession # Q14213
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 μ L/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

IL-27 is a heterodimeric cytokine comprised of the IL-12 p35-related protein, p28, and the IL-12 p40-related protein, EB13 (Epstein-Barr virus-Induced gene 3). IL-27 is expressed by monocytes, endothelial cells and dendritic cells. It binds TCCR/WSX-1 on naive CD4⁺ T cells and induces the expression of a functional IL-12 receptor, making these cells sensitive to IL-12-mediated Th1 cell development. Human EB13 also associates with the p35 subunit of IL-12 to form IL-35 which is important for immunosuppressive Treg cell induction. EB13 is 61% amino acid (aa) identical to mouse EB13 and includes an 20 aa signal peptide and a 209 aa mature protein with two fibronectin type III domains.