

DESCRIPTION

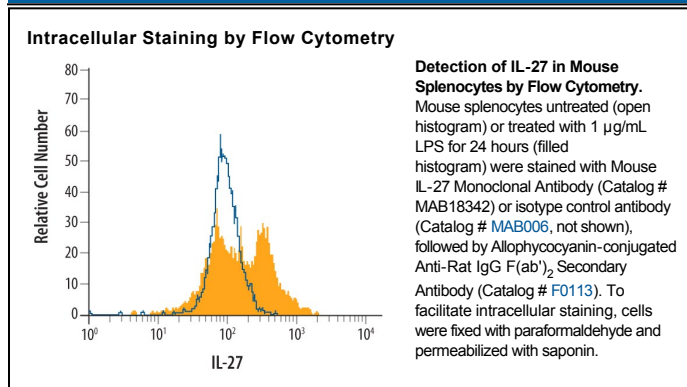
Species Reactivity	Mouse
Specificity	Detects mouse IL-27 in direct ELISAs. In direct ELISAs, approximately 10% cross-reactivity with recombinant mouse (rm) IL-27 p28, rmlL-27 EBI3, recombinant human (rh) IL-27 p28, and rhIL-27 EBI3 is observed.
Source	Monoclonal Rat IgG _{2A} Clone # 355025
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	Mouse myeloma cell line NS0-derived recombinant mouse IL-27 heterodimer Tyr19-Pro228 (EBI3), Phe29-Ser234 (p28) Accession # O35228 (EBI3) & Q8K316 (p28)
Formulation	Lyophilized from a 0.2 µm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied as a 0.2 µm filtered solution in PBS.

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	2.5 µg/10 ⁶ cells	See Below
CyTOF-ready	Ready to be labeled using established conjugation methods. No BSA or other carrier proteins that could interfere with conjugation.	

DATA



PREPARATION AND STORAGE

Reconstitution	Sterile PBS to a final concentration of 0.5 mg/mL.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none"> ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

Interleukin 27 (IL-27) is a secreted heterodimeric cytokine comprised of the IL-12 p35-related protein, p28, and the IL-12 p40-related protein, EBI3 (Epstein-Barr virus-induced gene 3). IL-27 is expressed by monocytes, endothelial cells and dendritic cells. It binds TCCR/WSX-1 on naïve CD4⁺ T cells and induces the expression of a functional IL-12 receptor, allowing IL-12-induced Th1 polarization. Human EBI3 is 61% amino acid (aa) identical to mouse EBI3 and includes an 20 aa signal peptide and a 209 aa mature protein with two fibronectin type III domains.