Mouse IL-27/IL-35 EBI3 Subunit PE-conjugated Antibody

Monoclonal Rat IgG_{2A} Clone # 355022

Catalog Number: IC18341P

100 TESTS

DESCRIPTION

Species Reactivity	Mouse
Specificity	Detects mouse IL-27/IL-35 EBI3 Subunit in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does not cross-react with recombinant human IL-27/IL-35 EBI3 subunit.
Source	Monoclonal Rat IgG_{2A} Clone # 355022
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) & Q8K3I6 (p28)
Conjugate	Phycoerythrin Excitation Wavelength: 488 nm Emission Wavelength: 565-605 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.

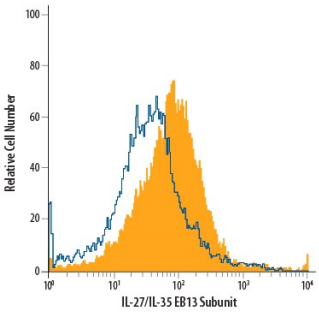
APPLICATIONS

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

Intracellular Staining by Flow Cytometry



Detection of IL-27/IL-35 EBI3 Subunit in Mouse splenocytes by Flow Cytometry. Mouse splenocytes untreated (open histogram) or treated with LPS (filled histogram) were stained with Rat Anti-Mouse IL-27/IL-35 EBI3 Subunit PE-conjugated Monoclonal Antibody (Catalog # IC18341A) or isotype control antibody (Catalog # IC006P, data not shown). 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.

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.** • 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, EBI3 (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 EBI3 also associates with the p35 subunit of IL-12 to form IL-35 which is important for immunosuppressive Treg cell induction. EBI3 is 61% amino acid (aa) identical to mouse EBI3 and includes an 20 aa signal peptide anda 209 aa mature protein with two fibronectin type III domains.

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