

# Mouse IL-27/IL-35 EBI3 Subunit PerCP-conjugated Antibody

Monoclonal Rat IgG<sub>2A</sub> Clone # 355022

Catalog Number: IC18341C 100 TESTS

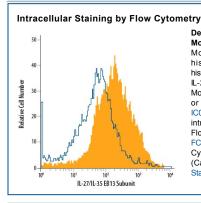
DESCRIPTION			
Species Reactivity	Mouse		
Specificity	Detects mouse IL-27/IL-35 EBI3 Subunit in direct ELISAs and Western blots. In direct ELISAs and Western blots, this antibody does		
	not cross-react with recombinant human IL-27/IL-35 EBI3 subunit.		
Source	Monoclonal Rat IgG <sub>2A</sub> Clone # 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	PerCP (Peridinin-chlorophyll Protein Complex)		
	Excitation Wavelength: 482 and 564 nm		
	Emission Wavelength: 675 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 Shee		
	(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 <sup>6</sup> cells	See Below

#### DATA



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 PerCP-conjugated Monoclonal Antibody (Catalog # IC18341C) or isotype control antibody (Catalog # IC006C, 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<sup>+</sup> 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.

