

Human IL-27/IL-35 EBI3 Subunit APC-conjugated Antibody

Monoclonal Mouse IgG₁ Clone # 607201

Catalog Number: IC6456A

100 TESTS

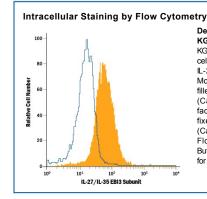
DESCRIPTION			
Species Reactivity	Human		
Specificity	Detects human IL-27/IL-35 EBI3 Subunit in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) IL-27 EBI3 or rmIL-27 (EBI3 + p28 heterodimer) is observed.		
Source	Monoclonal Mouse IgG ₁ Clone # 607201		
Purification	Protein A or G purified from hybridoma culture supernatant		
Immunogen	Mouse myeloma cell line NS0-derived recombinant human IL-27/IL-35 EBI3 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 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 ⁶ cells	See Below

DATA



Detection of IL-27/IL-35 EBI3 Subunit in KG-1 Human Cell Line by Flow Cytometry. KG-1 human acute myelogenous leukemia cell line was stained with Mouse Anti-Human IL-27/IL-35 EBI3 Subunit APC-conjugated Monoclonal Antibody (Catalog # IC6456A, filled histogram) or isotype control antibody (Catalog # IC002A, open histogram). 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

ShippingThe 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 and a 209 aa mature protein with two fibronectin type III domains.

