

## DESCRIPTION

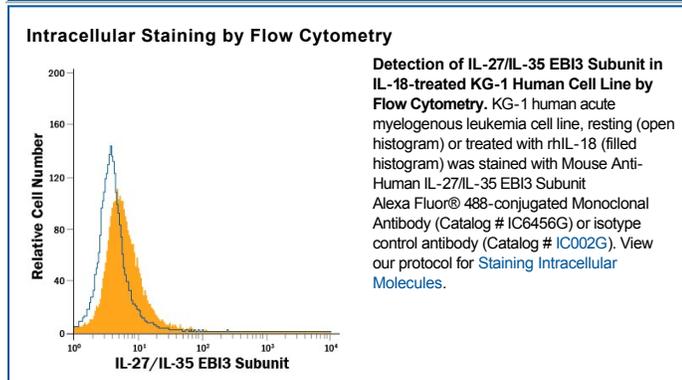
<b>Species Reactivity</b>	Human
<b>Specificity</b>	Detects human IL-27/IL-35 EBI3 Subunit in direct ELISAs. In direct ELISAs, no cross-reactivity with recombinant mouse (rm) IL-27 EBI3 or rmlIL-27 (EBI3 + p28 heterodimer) is observed.
<b>Source</b>	Monoclonal Mouse IgG <sub>1</sub> Clone # 607201
<b>Purification</b>	Protein A or G purified from hybridoma culture supernatant
<b>Immunogen</b>	Mouse myeloma cell line NS0-derived recombinant human IL-27/IL-35 EBI3 Subunit Arg21-Lys229 (predicted) Accession # Q14213
<b>Conjugate</b>	Alexa Fluor 488 Excitation Wavelength: 488 nm Emission Wavelength: 515-545 nm
<b>Formulation</b>	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.

	<b>Recommended Concentration</b>	<b>Sample</b>
<b>Intracellular Staining by Flow Cytometry</b>	5 µL/10 <sup>6</sup> 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.**

- 12 months from date of receipt, 2 to 8 °C as supplied.

## BACKGROUND

IL-27 is a heterodimeric cytokine comprised of the IL-12 family that is composed of two chains, EBV-induced gene 3 (EBI3), a 33 kDa glycosylated protein homologous to the p40 subunit of IL-12, and p28, a 28 kDa peptide analogous to the p35 subunit of IL-12. IL-27 has been found to be expressed by activated monocytes and monocyte-derived dendritic cells, astrocytes, adipocytes, CD4<sup>+</sup> T cells, and macrophages. In human tissues, EBI3 and p28 coexpression has been observed in macrophages or macrophage-derived cells, and in endothelial cells. The IL-27 receptor complex comprises two chains, IL-27R (also called WSX-1 or TCCR) and gp130. IL-27 is the only known ligand for IL-27R, whereas gp130 is a receptor component of several cytokines of the IL-6 family. Functionally, IL-27 appears to be immunosuppressive. On T cells in mice, it induces IL-10 secretion while suppressing IL-17A and GM-CSF production. But the relationship between IL-27 and IL-17A may be complex. After IL-17A induction, IL-27 secretion occurs in unstimulated cells, suggesting IL-27 downregulates bystander activation in inflammatory conditions. EBI3 also complexes with p35 (IL-12) to form IL-35. The mature EBI3 sequences for human and mouse share 62% amino acid sequence identity.

# Human IL-27/IL-35 EBI3 Subunit Alexa Fluor® 488-conjugated Antibody

Monoclonal Mouse IgG<sub>1</sub> Clone # 607201

Catalog Number: IC6456G

100 TESTS

## PRODUCT SPECIFIC NOTICES

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