

IL-27 Monoclonal Antibody (234205), FITC

Catalog NumberMA5-23551

Product data sheet

Details	
Size	100 Tests
Host/Isotope	Rat / IgG2b
Class	Monoclonal
Type	Antibody
Clone	234205
Immunogen	CHO-derived recombinant mouse IL-27 (aa 29-234 of p28, aa 19-228 of EBI-3)
Conjugate	FITC
Form	Liquid
Purification	Protein A/G
Storage buffer	Buffered saline solution with BSA
Contains	0.09% sodium azide
Storage Conditions	4° C, store in dark, DO NOT FREEZE!

Species Reactivity	
Species reactivity	Mouse
Tested Applications	
Flow Cytometry (Flow)	10 µL per million cells
* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	

Product specific information

This antibody recognizes the p28 subunit either as part of a p28/EBI-3 heterodimer or as a free subunit.

Background/Target Information

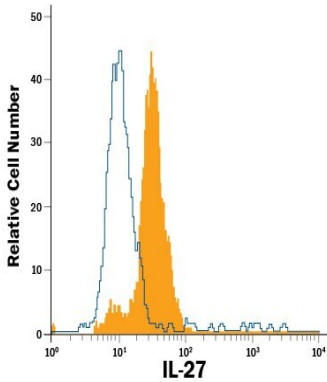
IL-27 (Interleukin 27) is a cytokine belonging to the IL-12 family, and is a heterodimeric cytokine composed of EBI3 and p28 subunits. IL-27 is produced by activated dendritic cells and macrophages in response to Toll-like receptor ligands and pro-inflammatory cytokines. IL-27 promotes CD4+ T cell differentiation to the Th1 lineage by inducing expression of the transcription factor T-bet and up regulating IL-12R beta2, which in turn suppresses Th2 and Th17 differentiation and proliferation. IL-27 is a recently discovered member of the IL-6/IL-12 family of proinflammatory and immunoregulatory cytokines. IL-27 acts by binding to its receptor WSX-1 and gp130 which results in the activation of a Jak/STAT signaling cascade, suggesting IL-27 involvement in the regulation of immune processes. It has been suggested that IL-27 can also be used as a therapeutic agent against cancer as it can also induce tumor-specific anti-tumor activity mediated through CD8+ T-cells, IFN-gamma, and T-bet. In humans, the gene is located on the p arm of chromosome 16.

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IL-27 Antibody (MA5-23551) in Flow

Flow cytometry of IL-27 in RAW 264.7 mouse monocyte/macrophage cell line. Samples were incubated in IL-27 monoclonal antibody (Product # MA5-23551) or isotype control. To facilitate intracellular staining, cells were fixed with Flow Cytometry Fixation Buffer and permeabilized with Flow Cytometry Permeabilization/Wash Buffer.

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