

Product datasheet for **AM31269FC-N**

IL27 Mouse Monoclonal Antibody [Clone ID: B-G49]

Product data:

Product Type:	Primary Antibodies
Clone Name:	B-G49
Applications:	FC
Recommended Dilution:	Flow Cytometry: Use 10 µl to label 10 ⁶ cells or 100 µl of whole blood.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Recombinant Human IL-27.
Specificity:	Recognizes both natural and recombinant Human IL-27
Formulation:	PBS with 5% BSA as stabilizer and 0.09% Sodium Azide as preservative. Label: FITC State: Liquid purified IgG fraction Label: Fluorescein
Purification:	Ion Exchange Chromatography
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C.
Stability:	Shelf life: one year from despatch.
Gene Name:	interleukin 27
Database Link:	Entrez Gene 246778 Human Q8NEV9



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Background:

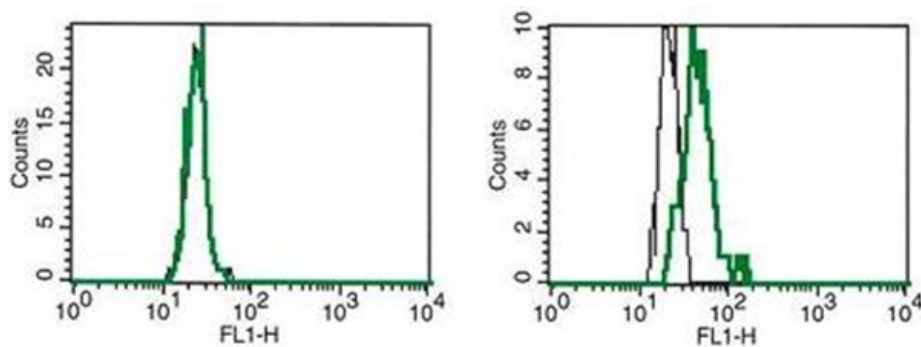
Like interleukin-23 (IL-23), IL-27 is a recently discovered member of the IL-6/IL-12 family of proinflammatory and immunoregulatory cytokines. It exists as a heterodimer composed of the p40-related protein EBI3 and an IL-12 p35-related protein termed p28. IL-27 is produced after activation by antigen-presenting cells and induces proliferation of naïve but not memory CD4⁺ T-cells. It acts by binding to its receptor WSX-1 and gp130 which results in the activation of a Jak/STAT signaling cascade, suggesting the IL-27 is involved 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.

Synonyms:

IL-27 subunit alpha, IL27-A, p28, IL30, IL-30, Interleukin-30

Protein Families:

Druggable Genome, Transmembrane

Product images:

The dendritic cells were activated with LPS 1ug/ml, IFN-gamma 10ng/ml and TNF-alpha 100ng/ml during 48h. A part of the dendritic cells was not activated to be used as Negative Control. 3x10⁵ dendritic cells (activated=green line or resting cells=black line) were labelled with 10 µl of anti-IL27 antibody FITC conjugated.