

Anti-IL-27 Antibody

Catalog Number: A00857-3

About IL27

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.

Overview

Product Name	Anti-IL-27 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-IL-27 Antibody (Catalog # A00857-3). Tested in ELISA, WB, ICC applications. This antibody reacts with Human, Mouse.
Application	ELISA, ICC, WB
Clonality	Polyclonal
Formulation	IL-27 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	IL-27 antibody can be stored at 4°C for three months and -20°C, stable for up to one year. Avoid repeated freeze-thaw cycles. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q8NEV9

Technical Details

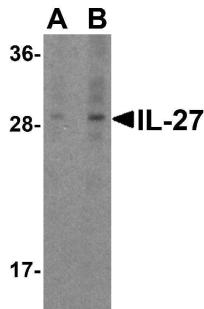
Immunogen	Anti-IL-27 antibody was raised against a peptide corresponding to 16 amino acids near the amino terminus of human IL-27. The immunogen is located within the first 50 amino acids of IL-27.
Predicted Reactive Species	Rat
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	IL-27 Antibody is affinity chromatography purified via peptide column.

Suggested Dilutions

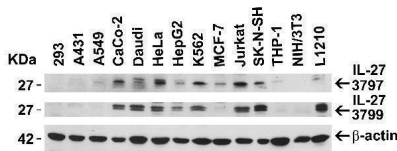
WB: 0.5 - 4 ug/mL; ICC: 10 ug/mL.

Antibody validated: Western Blot in human and mouse samples; Immunocytochemistry in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

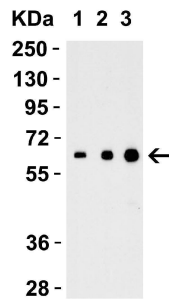
Anti-IL-27 Antibody (A00857-3) Images



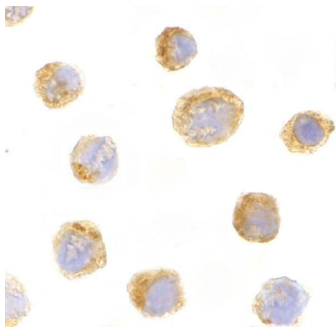
Western Blot Validation in Mouse A20 Cells Loading: 15 ug of lysates per lane. Antibodies: IL-27 A00857-3, (A: 1 ug/mL, B: 2 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Independent Antibody Validation (IAV) via Protein Expression Profile in Cell Lines Loading: 15 ug of lysates per lane. Antibodies: IL-27 A00857-3 (4 ug/mL), IL-27 3799 (4 ug/mL), and beta-actin (1 ug/mL), 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Recombinant Protein Validation Loading: 30 ng of human recombinant IL-17 (IL-17A+IL-17B) protein per lane. Antibodies: IL-27 A00857-3, 1h incubation at RT in 5% NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 0.5 ug/mL, Lane 2: 1 ug/mL, Lane 3: 2 ug/mL



Immunocytochemistry Validation of IL-27 in Mouse EL4 Cells Immunocytochemical analysis of Mouse EL4 cells using anti-IL-27 antibody (A00857-3) at 10 ug/ml. Cells was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

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Anti-IL-27 Antibody

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