BOSTER BIOLOGICAL TECHNOLOGY
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Anti-Interleukin-27 subunit beta EBI3 Antibody

Catalog Number: A07190

About EBI3

EBI3 is a subunit in two distinct heterodimeric cytokines: interleukin-27 (IL-27) and IL-35. 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 (also known as TCCR) 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. IL-35 is composed of EBI3 and the p35 subunit of IL-12 and has been reported to have therapeutic effects against collagen-induced arthritis by expanding the population of regulatory T cells and suppressing Th17 cells. At least two isoform of EBI3 are known to exist.

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Overview

Product Name	Anti-Interleukin-27 subunit beta EBI3 Antibody
Reactive Species	Human
Description	Boster Bio Anti-Interleukin-27 subunit beta EBI3 Antibody (Catalog # A07190). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	EBI3 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	EBI3 antibody can be stored at 4°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	Q14213

Technical Details

Immunogen	Anti-EBI-3 antibody was raised against a peptide corresponding to 16 amino acids near the carboxy terminus of mature human EBI-3. The immunogen is located within the last 50 amino acids

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	of EBI3.
Predicted Reactive Species	Mouse, Rat
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	EBI3 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 1-4 ug/mL; IF: 20 ug/mL ; IHC: 2.5 ug/mL;. Antibody validated: Western Blot, Immunofluorescence, and Immunohistochemistry in human samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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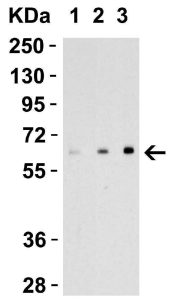
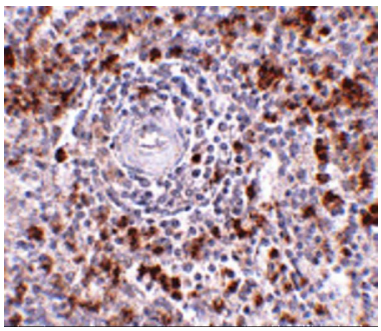
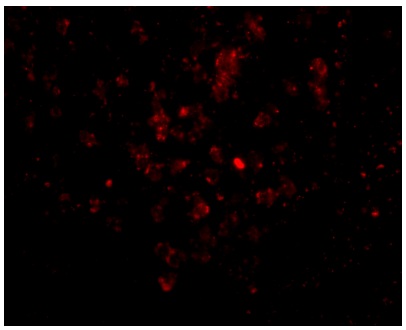
Anti-Interleukin-27 subunit beta EBI3 Antibody (A07190) Images



Recombinant Protein Validation Loading: 30 ng of human recombinant IL-17 (IL-17A+IL-17B) protein per lane. Antibodies: EBI-3 A07190, 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution. Lane 1: 1 ug/mL, Lane 2: 2 ug/mL, Lane 3: 4 ug/mL,



Immunohistochemistry Validation of EBI-3 in Human Spleen Tissue Immunohistochemical analysis of paraffin-embedded Human Spleen tissue using anti-EBI-3 antibody (A07190) at 2.5 ug/ml. Tissue 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.



Immunofluorescence Validation of EBI-3 in Human Spleen Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed Human Spleen tissue labeling EBI-3 with A07190 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).

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