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antibody and ELISA experts

BOSTER BIOLOGICAL TECHNOLOGY
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Anti-IL-23 Antibody

Catalog Number: A01097

About IL23A

Like interleukin-27 (IL-27), IL-23 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 IL-12p40 subunit and a novel p19 subunit. IL-23 is secreted by activated dendritic cells, macrophages, and monocytes. Its biological activities include enhancing the proliferation of memory T cells and the production of IFN-gamma, IL-12, and TNF-alpha from activated T cells, and can stimulate macrophages to produce TNF-alpha and nitric oxide. It has also been shown to possess potent anti-tumor and anti-metastatic activity in mouse models of cancer, suggesting a potential role for IL-23 in therapeutic treatment of cancer.

Overview

Product Name	Anti-IL-23 Antibody
Reactive Species	Human
Description	Boster Bio Anti-IL-23 Antibody (Catalog # A01097). Tested in ELISA, WB, IHC-P, ICC, IF applications. This antibody reacts with Human.
Application	ELISA, IF, IHC-P, ICC, WB
Clonality	Polyclonal
Formulation	IL-23 Antibody is supplied in PBS containing 0.02% sodium azide.
Storage Instructions	IL-23 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	Q9NPF7

Technical Details

Immunogen	Anti-IL-23 antibody was raised against a peptide corresponding to 14 amino acids near the carboxy terminus of mature human IL-23. The immunogen is located the last 50 amino acids of IL-23.
Predicted Reactive Species	Guinea Pig, Horse, Mouse, Rat
Cross Reactivity	At least two isoforms of SCARB1 are known to exist; this antibody can detect both isoforms.
Isotype	IgG
Form	Liquid
Concentration	1 mg/mL
Purification	IL-23 Antibody is affinity chromatography purified via peptide column.

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Suggested Dilutions	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit. If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples. Some PubMed article(s) citing the expression level of this target are as follows: Boster Bio's internal QC testing used: WB: 1-4 ug/mL; ICC: 10 ug/mL; IF: 20 ug/mL, IHC: 5 ug/mL. Antibody validated: Western Blot, Immunocytochemistry, 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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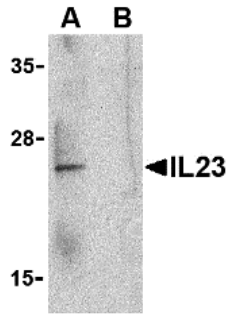
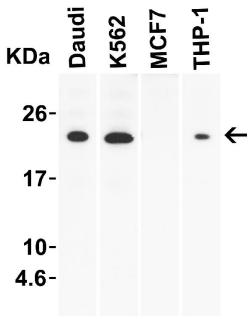
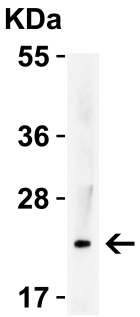
Anti-IL-23 Antibody (A01097) Images



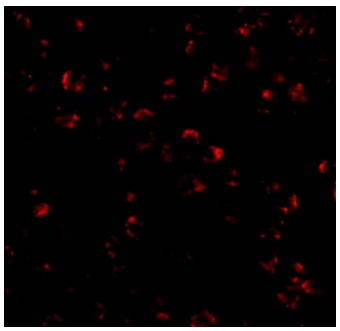
Western Blot Validation in Human Raji Cells
Loading: 15 ug of lysates per lane.Antibodies: IL-23 A01097 (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST.Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.Lane A: Absence of blocking peptideLane B: Presence of blocking peptide.



Western Blot Validation in Human Cell Lines
Loading: 20 ug of lysates per lane.Antibodies: IL-23 A01097, (2 ug/mL), 1h incubation at RT in 5% NFDM/TBST.Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation with Recombinant Protein
Loading: 30 ng of human IL-23 recombinant protein.
Antibodies: IL-23 A01097 (4 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Validation of IL-23 in Raji Cells
Immunofluorescent analysis of 4% paraformaldehyde-fixed Raji Cells labeling IL-23 with A01097 at 20 ug/mL

Immunocytochemistry Validation of IL-23 in Raji Cells
Immunocytochemical analysis of Raji cells using anti-IL-23 antibody (A01097) 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

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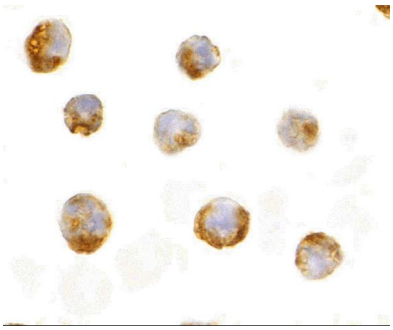
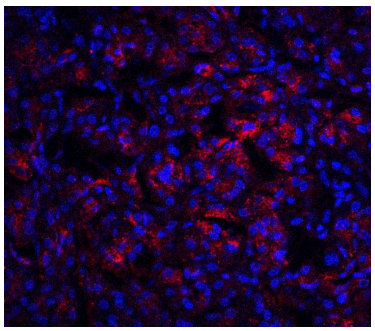
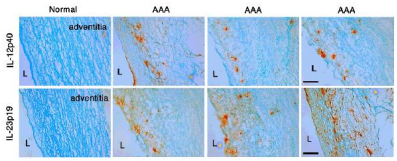


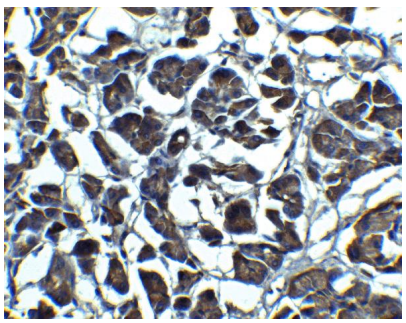
was used as secondary. Counter stained with Hematoxylin.



Immunofluorescence Validation of IL-23 in Human Pancreas Tissue
Immunofluorescent analysis of 4% paraformaldehyde-fixed human pancreas tissue labeling IL-23 with A01097 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red) and DAPI staining (blue).



Immunohistochemistry Validation of IL-23 in Human Abdominal Aortic Aneurysm (AAA) Tissues (Yan et al.



Immunohistochemistry Validation of IL-23 in Human Pancreas Tissue
Immunohistochemical analysis of paraffin-embedded human pancreas tissue using anti-IL-23 antibody (A01097) at 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.