BOSTER BIOLOGICAL TECHNOLOGY
3942 B Valley Ave, Pleasanton, CA 94566
888-466-3604 | support@bosterbio.com | www.bosterbio.com

Anti-IL-23 Antibody

Catalog Number: A01097-2

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.

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Overview

Product Name	Anti-IL-23 Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-IL-23 Antibody (Catalog # A01097-2). Tested in ELISA, WB, IHC-P, IF applications. This antibody reacts with Human, Mouse.
Application	ELISA, IF, IHC-P, WB
Clonality	Polyclonal
Formulation	IL-23 Antibody is supplied in PBS containing ≤0.09% sodium azide.
Storage Instructions	IL-23 antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Host	Rabbit
Uniprot ID	Q9NPF7

Technical Details

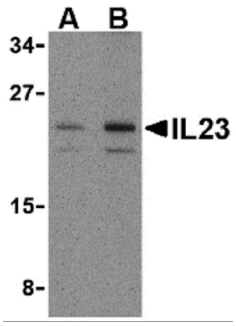
Immunogen	Anti-IL-23 antibody was raised against a peptide corresponding to 17 amino acids near the amino terminus of human IL-23. The immunogen is located within amino acids 40 - 90 of IL-23.
Predicted Reactive Species	Guinea Pig, Horse, Pig, Rat
Isotype	IgG

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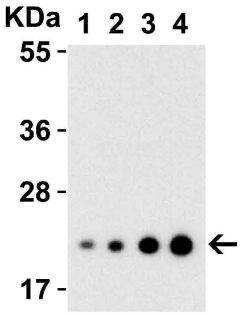
Form	Liquid
Concentration	1 mg/mL
Purification	IL-23 Antibody is affinity chromatography purified via peptide column.
Suggested Dilutions	WB: 0.25-2 ug/mL; IF: 20 ug/mL, IHC: 2 ug/mL. Antibody validated: Western Blot in human and mouse samples; Immunofluorescence and Immunohistochemistry in mouse samples. All other applications and species not yet tested. Optimal dilutions for each application should be determined by the researcher.

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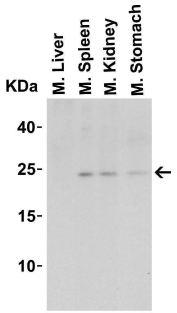
Anti-IL-23 Antibody (A01097-2) Images



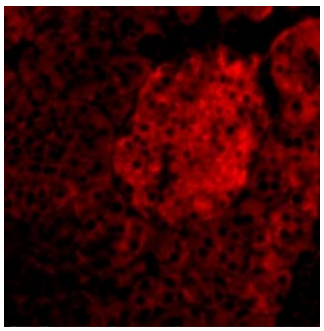
Western Blot Validation in Mouse Pancreas Tissue Lysate Loading: 15 ug of lysates per lane. Antibodies: IL-23 A01097-2 (A: 1 ug/mL, B: 2 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Western Blot Validation with Recombinant Protein Loading: 30 ng of human IL-23 recombinant protein per lane. Antibodies: IL-23 A01097-2 (1: 0.25 ug/mL, 2: 0.5 ug/mL, 3: 1 ug/mL and 4: 2ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



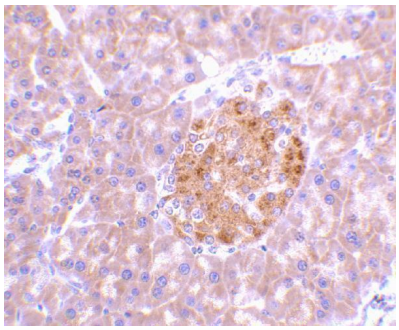
Western Blot Validation in Mouse Tissue Lysate Loading: 15 ug of lysates per lane. Antibodies: IL-23 A01097-2 (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



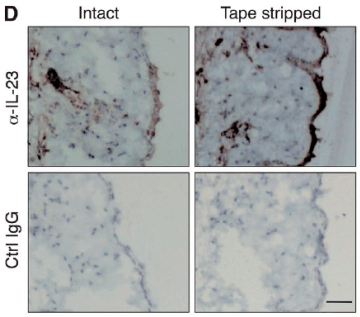
Immunofluorescence Validation of IL-23 in Mouse Pancreas Tissue Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse pancreas tissue labeling IL-23 with A01097-2 at 20 ug/mL, followed by goat anti-rabbit IgG secondary antibody at 1/500 dilution (red).

Immunohistochemistry Validation of IL-23 in Mouse Pancreas Tissue Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using anti-IL-23 antibody (A01097-2) at 2 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

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anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.



Induced Expression Validation of IL-23 in Mouse Keratinocytes of Epidermis (Yoon et al., 2016) The expression of IL-23 protein induced by tape stripping was detected by immunohistochemical analysis of mouse's skin with anti-IL-23 antibodies. Skin sections from the mouse exhibited epidermis staining positive for IL-23 expression 6 hr after tape stripping. Staining with an isotype-matched irrelevant antibody (Ctrl IgG) was used as a negative control.

Anti-IL-23 Antibody

For Research Use Only. Not for use in diagnostic procedures.