

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.

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 0.02% 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
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.

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.

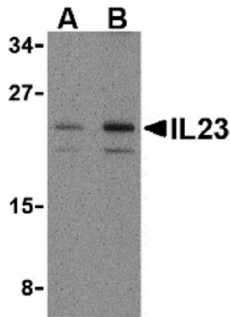
Some PubMed article(s) citing the expression level of this target are as follows:

Boster Bio's internal QC testing used:

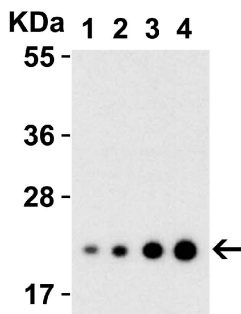
WB: 0.25-2 ug/mL; IF: 20 ug/mL, IHC: 2 ug/mL.

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.

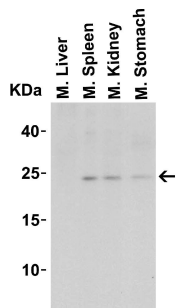
Anti-IL-23 Antibody (A01097-2) Images



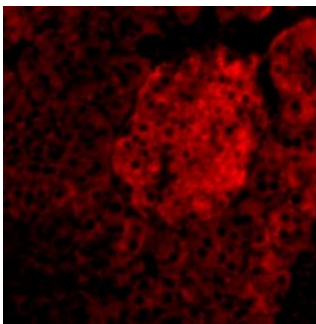
Western Blot Validation in Mouse Pancreas Tissue Lysate
Loading: 15 ug of lysates per lane. Antibodies: IL-23 A01097-2 (A: 1 ug/mL, B: 2 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



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.

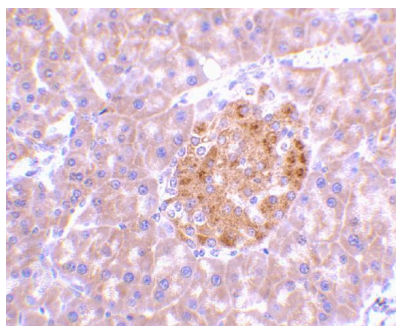


Western Blot Validation in Mouse Tissue Lysate
Loading: 15 ug of lysates per lane. Antibodies: IL-23 A01097-2 (1 ug/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.

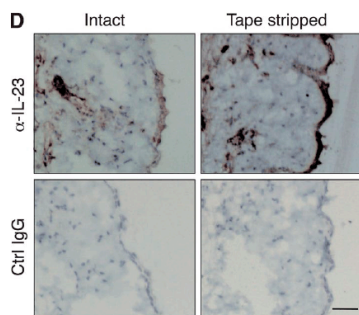


Immunofluorescence Validation of IL-23 in Mouse Pancreas Tissue
Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse pancreas tissue labeling IL-23 with A01097-2 at 20 ug/mL

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 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.

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