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Datasheet for 600-401-BW0

IL-23 Antibody

Overview

Description:	Anti-IL-23 (RABBIT) Antibody - 600-401-BW0
Item No.:	600-401-BW0
Size:	100 µg
Applications:	ELISA, IF, IHC, WB
Reactivity:	Human, Mouse
Host Species:	Rabbit

Product Details

Background:	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-a from activated T cells, and can stimulate macrophages to produce TNF-a 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.
Synonyms:	IL-23 Antibody, P19, SGRF, IL-23, IL-23A, IL23P19, UNQ2498/PRO5798, Interleukin-23 subunit alpha, Interleukin-23 subunit p19, IL-23 subunit alpha
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	IL23A
Reactivity:	Human, Mouse
Immunogen Type:	Conjugated Peptide

Immunogen:	Anti-IL-23 antibody was prepared from whole rabbit serum produced by repeated immunizations with a 16 amino acid synthetic peptide from near the N-terminus of human IL-23.
Purity/Specificity:	Anti-IL-23 Antibody was affinity purified from monospecific antiserum by immunoaffinity chromatography. Cross reactivity with IL-23 from other sources has not been determined.
Relevant Links:	• UniProtKB - Q9NPF7 • GeneID - 51561 • NCBI - AAH66268

Application Details

Tested Applications:	ELISA, IF, IHC, WB
Application Note:	Anti-IL-23 Antibody has been tested for use in ELISA, Western Blotting, Immunohistochemistry and Immunofluorescence. Specific conditions for reactivity should be optimized by the end user. Expect a band at approximately 63 kDa in Western Blots of specific cell lysates and tissues.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:10,000-1:20,000
IF:	20 µg/mL
IHC:	2 µg/mL
WB:	1-2 µg/mL

Formulation

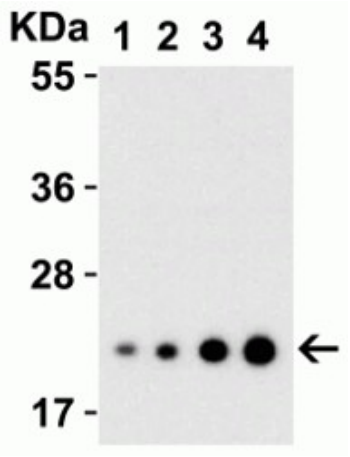
Physical State:	Liquid (sterile filtered)
Concentration:	1.0 mg/ml by UV absorbance at 280 nm
Buffer:	0.01 M Sodium Phosphate, 0.25 M Sodium Chloride, pH 7.2
Preservative:	0.02% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

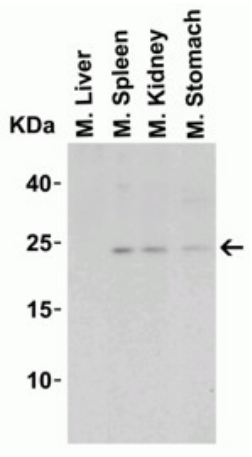
Shipping Condition:	Wet Ice

Storage Condition:	Antibody can be stored at 4°C up to one year. Antibodies should not be exposed to prolonged high temperatures.
Expiration:	Expiration date is one (1) year from date of receipt.

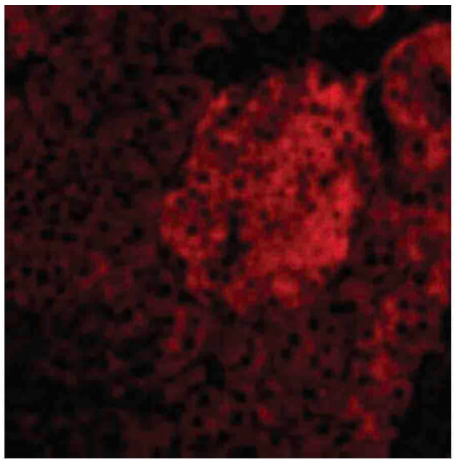
Images



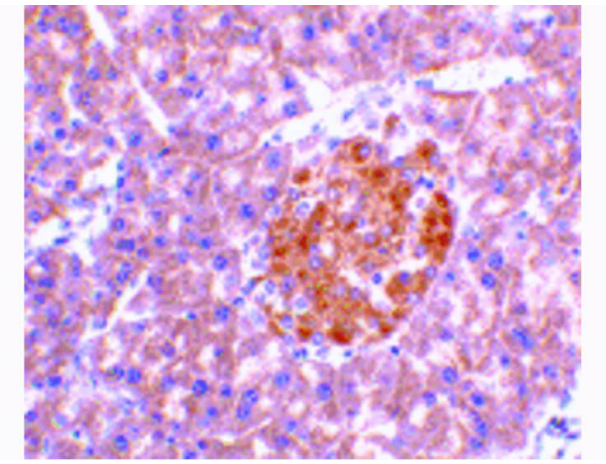
Western Blot
Western Blot Validation with Recombinant Protein. Loading: 30 ng of human IL-23 recombinant protein per lane. Antibodies: IL-23 (1: 0.25 µg/mL, 2: 0.5 µg/mL, 3: 1 µg/mL and 4: 2µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



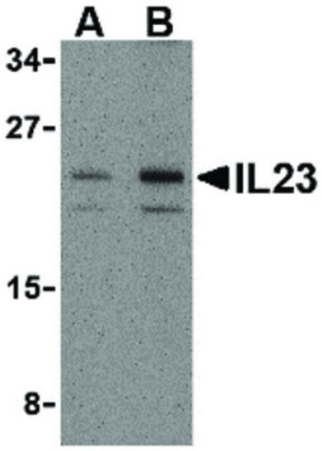
Western Blot
Western Blot Validation. Loading: 15 µg of mouse tissue lysates per lane. Antibodies: IL-23 (1 µg/mL), 1h incubation at RT in 5% NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10000 dilution.



Immunofluorescence Microscopy
Immunofluorescence Microscopy of IL-23 antibody. Cell Type: Mouse pancreas cells. Fixation: 0.5% PFA. Antigen retrieval: not required. Primary antibody: IL-23 antibody at 20 µg/mL for 1 h at RT. Secondary antibody: Fluorescein rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IL-23 is secreted. Staining: IL-23 as red fluorescent signal.



Immunohistochemistry
Immunohistochemistry of IL-23 antibody. Tissue: mouse pancreatic tissue. Fixation: formalin fixed paraffin embedded. Antigen retrieval: not required. Primary antibody: IL-23 antibody at 2 µg/mL for 1 h at RT. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Localization: IL-23 is secreted. Staining: IL-23 is stained with hematoxylin purple nuclear counterstain.



Western Blot
Western Blot of IL-23 antibody in mouse pancreas tissue lysate. Lane A: IL-23 antibody at 1 µg/mL. Lane B: IL-23 antibody at 2 µg/mL. Load: 35 µg per lane. Primary antibody: IL-23 antibody at designated concentrations for overnight at 4°C. Secondary antibody: Peroxidase rabbit secondary antibody at 1:10,000 for 45 min at RT. Block: 5% BLOTTO overnight at 4°C. Predicted/Observed size: 21 kDa, 22 kDa for IL-23. Other band(s): IL-23 splice variants and isoforms.

Disclaimer

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