

IL-23 p19 Polyclonal Antibody

Catalog NumberPA5-20239

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse
Host/Isotope	Rabbit / IgG	Published species	Human, Mouse
Class	Polyclonal	Tested Applications	Dilution *
Type	Antibody	Immunohistochemistry (IHC)	2 µg/mL
Immunogen	A 17 amino acid peptide from near the amino terminus of human IL-23.	Western Blot (WB)	0.25-2 µg/mL
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Immunohistochemistry (IHC)	See 2 publications below
Concentration	1 mg/mL	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Purification	Antigen affinity chromatography		
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	4° C		

Product specific information

A suggested positive control is mouse pancreas tissue lysate. PA5-20239 can be used with blocking peptide PEP-0358.

Background/Target Information

IL-23 is a heterodimeric cytokine composed of the p40 subunit of IL-12 disulfide-linked with a protein p19. p19, like p35 of IL-12, is biologically inactive by itself. IL-23 interacts with IL-12Rbeta1 and an additional, novel beta2-like receptor subunit with STAT4 binding domain, termed IL-23R. IL-23 is secreted by activated mouse and human dendritic cells. Biological activities of mouse IL-23 are distinct from those of mouse IL-12. Mouse IL-23 was found not to induce significant amounts of IFN-. Mouse IL-23 does induce strong proliferation of memory T cells (but not naive T cells), whereas IL-12 has no effect on memory cells. Additionally, mouse IL-23 (but not IL-12) can activate mouse memory T cells to produce the proinflammatory cytokine IL-17. Human IL-23 has biological properties which are less distinct from human IL-12; human IL-23 induces proliferation of memory T cells and induces moderate levels of IFN- production by naive and memory T cells, as compared to IL-12.

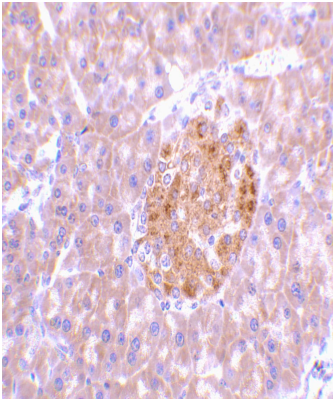
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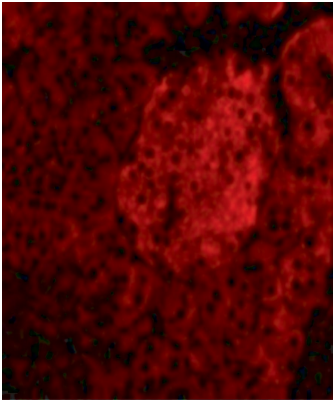
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Product Images For IL-23 p19 Polyclonal Antibody



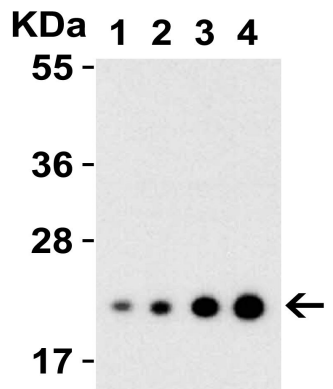
IL-23 p19 Antibody (PA5-20239) in IHC (P)

Immunohistochemical analysis of paraffin-embedded mouse pancreas tissue using IL-23 p19 Polyclonal Antibody (Product # PA5-20239) at 2 µg/mL. Tissue was fixed with formaldehyde and blocked with 0.1 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.



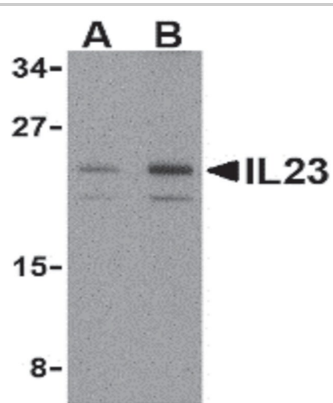
IL-23 p19 Antibody (PA5-20239) in IHC (P)

Immunofluorescent analysis of 4% paraformaldehyde-fixed mouse pancreas tissue labeling IL-23 with IL-23 p19 Polyclonal Antibody (Product # PA5-20239) at 20 µg/mL, followed by goat anti-rabbit IgG secondary antibody at 1:500 dilution (red).



IL-23 p19 Antibody (PA5-20239) in WB

Western Blot Validation with Recombinant Protein. Loading: 30 ng of human IL-23 recombinant protein per lane. Antibodies: IL-23 p19 Polyclonal Antibody (Product # PA5-20239) (1: 0.25 µg/mL, 2: 0.5 µg/mL, 3: 1 µg/mL, and 4: 2 µg/mL), 1h incubation at RT in 0.05 NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.



IL-23 p19 Antibody (PA5-20239) in WB

Western Blot Validation in Mouse Pancreas Tissue Lysate. Loading: 15 µg of lysates per lane. Antibodies: IL-23 p19 Polyclonal Antibody (Product # PA5-20239) (A: 1 µg/mL, B: 2 µg/mL), 1h incubation at RT in 0.05 NFDm/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.

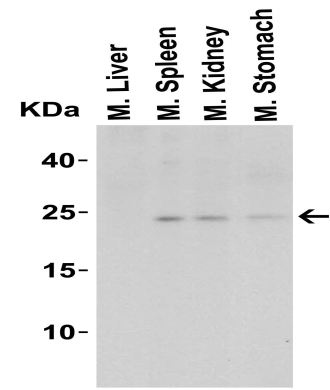
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IL-23 p19 Antibody (PA5-20239) in WB

Western Blot Validation in Mouse Tissue Lysate. Loading: 15 µg of lysates per lane. Antibodies: IL-23 p19 Polyclonal Antibody (Product # PA5-20239) (1 µg/mL), 1h incubation at RT in 0.05 NFDM/TBST. Secondary: Goat anti-rabbit IgG HRP conjugate at 1:10,000 dilution.



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PubMed References For IL-23 p19 Polyclonal Antibody

2 Immunohistochemistry References

Species / Dilution	Summary
Human / Not Cited	<p>PA5-20239 was used in Immunohistochemistry to investigate the inflammatory molecules involved in three stages of Hidradenitis suppurativa (HS) pathogenesis, including healthy apocrine gland-rich, non-lesional HS and lesional HS skin, with the parallel application of multiple mRNA and protein-based methods.</p> <p>Journal of the European Academy of Dermatology and Venereology : JEADV ( 2022; 36: 462) <b>"Primary alterations during the development of hidradenitis suppurativa."</b> Author(s):Dajnoki Z,Somogyi O,Medgyesi B,Jenei A,Szabó L,Gáspár K,Hendrik Z,Gergely P,Imre D,Pólska S,Töröcsik D,Zouboulis CC,Prens EP,Kapitány A,Szegedi A PubMed Article URL:<a href="http://dx.doi.org/10.1111/jdv.17779">http://dx.doi.org/10.1111/jdv.17779</a></p>
Human / Not Cited	<p>PA5-20239 was used in Immunohistochemistry to investigate IL23 in the context of TGF- expression in pancreatic ductal adenocarcinoma.</p> <p>Scientific reports ( 2018; 8: ) <b>"IL23 and TGF-β diminish macrophage associated metastasis in pancreatic carcinoma."</b> Author(s):Hussain SM,Reed LF,Krasnick BA,Miranda-Carboni G,Fields RC,Bi Y,Elahi A,Ajidahun A,Dickson PV,Deneve JL,Hawkins WG,Shibata D,Glazer ES PubMed Article URL:<a href="http://dx.doi.org/10.1038/s41598-018-24194-5">http://dx.doi.org/10.1038/s41598-018-24194-5</a></p>

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