

IL-15 Polyclonal Antibody

Catalog NumberPA5-34511

Product data sheet

Details		Species Reactivity	
Size	100 µg	Species reactivity	Human, Mouse, Rat
Host/Isotope	Rabbit / IgG	Published species	Mouse, Human
Class	Polyclonal	Tested Applications	Dilution *
Type	Antibody	Immunohistochemistry (IHC)	2.5 µg/mL
Immunogen	A 13 amino acid peptide near the center of human IL-15	Western Blot (WB)	1-2 µg/mL
Conjugate	Unconjugated	Published Applications	
Form	Liquid	Western Blot (WB)	See 1 publications below
Concentration	1 mg/mL	Immunohistochemistry (IHC)	See 1 publications below
Purification	Antigen affinity chromatography	* 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.	
Storage buffer	PBS		
Contains	0.02% sodium azide		
Storage Conditions	Maintain refrigerated at 2-8°C for up to 3 months. For long term storage store at -20°C		

Product specific information

A suggested positive control is rat spleen tissue lysate. PA5-34511 can be used with blocking peptide PEP-1554.

Background/Target Information

IL-15 (Interleukin 15) is a cytokine that regulates T and natural killer cell activation and proliferation. IL-15 and IL-2 share many biological activities as both have been found to bind common hematopoietin receptor subunits, and may compete for the same receptor, and thus negatively regulate each other's activity. The number of CD8+ memory cells is shown to be controlled by a balance between IL-15 and IL-2. IL-15 induces the activation of JAK kinases, as well as the phosphorylation and activation of transcription activators STAT3, STAT5, and STAT6. In mouse, studies suggest that IL-15 may increase the expression of apoptosis inhibitor Bcl-xL, possibly through the transcription activation activity of STAT6, and thus prevent apoptosis. IL-15 plays an important role in the growth and differentiation of T and B lymphocytes, natural killer cells, macrophages, and monocytes as well as activation of a number of important intracellular signaling molecules. As such, IL-15 could be essential for the immune responses, allograft rejection, and the pathogenesis of autoimmune diseases. Further, IL-15 is a widely expressed pro-inflammatory cytokine and has been shown to play a role in several inflammatory disorders, including rheumatoid arthritis, psoriasis and pulmonary inflammatory diseases. Emerging data suggest that IL-15 may serve as a good therapeutic target, as there appears to be a beneficial effect of IL-15 neutralization in models of psoriasis and diabetes.

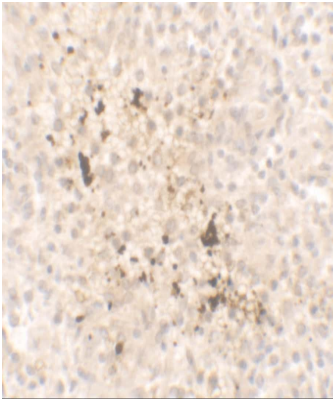
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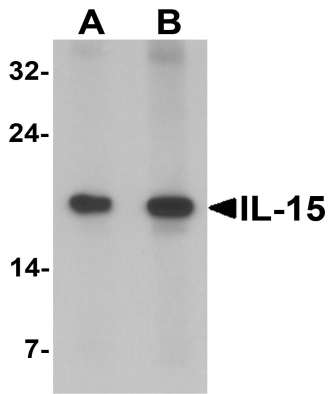
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Product Images For IL-15 Polyclonal Antibody



IL-15 Antibody (PA5-34511) in IHC
Immunohistochemistry of IL-15 in human spleen tissue with IL-15 Polyclonal Antibody (Product # PA5-34511) at 2.5 µg /mL.



IL-15 Antibody (PA5-34511) in WB
Western Blot analysis of IL-15 in rat spleen tissue lysate with IL-15 Polyclonal Antibody (Product # PA5-34511) at (A) 1 and (B) 2 µg/mL

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PubMed References For IL-15 Polyclonal Antibody

1 Western Blot References

Species / Dilution	Summary
	PA5-34511 was used in Western Blotting to show that hypothalamic brain-derived neurotrophic factor upregulates IL-15 production in adipocytes via sympathetic -adrenergic signaling.
Mouse / 1:500	Brain, behavior, and immunity (2021; 95: 477) "Environmental activation of a hypothalamic BDNF-adipocyte IL-15 axis regulates adipose-natural killer cells." Author(s):Bergin SM,Xiao R,Huang W,Judd CRT,Liu X,Mansour AG,Queen N,Widstrom KJ,Caligiuri MA,Cao L PubMed Article URL: http://dx.doi.org/10.1016/j.bbi.2021.05.005

1 Immunohistochemistry References

Species / Dilution	Summary
	PA5-34511 was used in Immunohistochemistry to indicate a novel role for activated DDR-2 in RA FLS, showing that DDR-2 is responsible for regulating the expression of IL-15 and Dkk-1 in RA FLS and is involved in the promotion of inflammation and joint destruction during pathophysiologic development of RA.
Human / 1:100	Arthritis & rheumatology (Hoboken, N.J.) (2020; 72: 943)
Mouse / 1:100	"Blockade of Discoidin Domain Receptor 2 as a Strategy for Reducing Inflammation and Joint Destruction in Rheumatoid Arthritis Via Altered Interleukin-15 and Dkk-1 Signaling in Fibroblast-Like Synoviocytes." Author(s):Mu N,Gu JT,Huang TL,Liu NN,Chen H,Bu X,Zheng ZH,Jia B,Liu J,Wang BL,Wang YM,Zhu ZF,Zhang Y,Zhang YQ,Xue XC,Li M,Zhang W PubMed Article URL: http://dx.doi.org/10.1002/art.41205

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