

IL-10 Monoclonal Antibody (945A2A5)

Catalog NumberAHC9102

Product data sheet

Details		Species Reactivity	
Size	500 µg	Species reactivity	Human
Host/Isotope	Mouse / IgG1, kappa	Published species	Human, Not Applicable
Class	Monoclonal	Tested Applications	
Type	Antibody	Immunohistochemistry (IHC)	Dilution * Assay-dependent
Clone	945A2A5	Published Applications	
Immunogen	Purified recombinant human IL-10.	Immunohistochemistry (IHC)	See 2 publications below
Conjugate	Unconjugated	Miscellaneous PubMed (Misc)	See 2 publications below
Form	Liquid	Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below
Concentration	1 mg/mL	* 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.	
Purification	Protein A		
Storage buffer	PBS, pH 7.5		
Contains	0.5mg/mL sodium azide		
Storage Conditions	4° C		

Background/Target Information

IL-10 encodes a protein that acts as a cytokine and is primarily produced by monocytes, with some production by lymphocytes. This cytokine has various effects on immunoregulation and inflammation, including down-regulating the expression of Th1 cytokines, MHC class II Ags, and costimulatory molecules on macrophages. It also enhances B cell survival, proliferation, and antibody production. Additionally, IL-10 can block NF-kappa B activity and is involved in the regulation of the JAK-STAT signaling pathway. Knockout studies in mice have suggested that this cytokine is an essential immunoregulator in the intestinal tract. Mutations in this gene have been associated with an increased susceptibility to HIV-1 infection and rheumatoid arthritis. Diseases associated with IL10 include Graft-Versus-Host Disease and Human Immunodeficiency Virus Type 1.

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PubMed References For IL-10 Monoclonal Antibody (945A2A5)

2 Immunohistochemistry References

Species / Dilution	Summary
Human / Not Cited	The American journal of pathology (1996; 149: 1991) "In situ expression of cytokines in human heart allografts." Author(s):Van Hoffen E, Van Wichen D, Stuij I, De Jonge N, Klöpping C, Lahpor J, Van Den Tweel J, Gmelig-Meyling F, De Weger R PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/8952534
Human / Not Cited	The Journal of heart and lung transplantation : the official publication of the International Society for Heart Transplantation (2002; 21: 1188) "Localized immunosuppression in the cardiac allograft induced by a new liposome-mediated IL-10 gene therapy." Author(s):Hong YS, Laks H, Cui G, Chong T, Sen L PubMed Article URL: http://dx.doi.org/10.1016/s1053-2498(02)00417-5

2 Miscellaneous PubMed References

Species / Dilution	Summary
Human / 1:50	AHC9102 was used in immunohistochemistry - frozen section to investigate factors that regulate delayed-type hypersensitivity F1000Research (2015; 4:) "Psoriasis is characterized by deficient negative immune regulation compared to transient delayed-type hypersensitivity reactions." Author(s):Gulati N, Suárez-Fariñas M, Correa da Rosa J, Krueger JG PubMed Article URL: http://dx.doi.org/10.12688/f1000research.6581.1
Human / Not Cited	AHC9102 was used in immunohistochemistry (paraffin) to elucidate the role of IL-10 in human papillomavirus infection. Immunology (2015; 146: 113) "Local immunosuppression induced by high viral load of human papillomavirus: characterization of cellular phenotypes producing interleukin-10 in cervical neoplastic lesions." Author(s):Prata TT, Bonin CM, Ferreira AM, Padovani CT, Fernandes CE, Machado AP, Tozetti IA PubMed Article URL: http://dx.doi.org/10.1111/imm.12487

1 Immunohistochemistry (Paraffin) References

Species / Dilution	Summary
Human / Not Cited	AHC9102 was used in immunohistochemistry - paraffin section to determine the effects of endurance training-induced weight loss, diet-induced weight loss, and endurance training per se (without weight loss) on plasma adiponectin and adipose tissue macrophage content in young, moderately overweight men. American journal of physiology. Regulatory, integrative and comparative physiology (2013; 305: R490) "Differential effects of endurance training and weight loss on plasma adiponectin multimers and adipose tissue macrophages in younger, moderately overweight men." Author(s):Auerbach P, Nordby P, Bendtsen LQ, Mehlsen JL, Basnet SK, Vestergaard H, Ploug T, Stallknecht B PubMed Article URL: http://dx.doi.org/10.1152/ajpregu.00575.2012

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