

IL-10 Monoclonal Antibody (JES3-9D7)

Catalog NumberAHC0102

Product data sheet

Details		Species Reactivity	
Size	500 µg	Species reactivity	Human
Host/Isotope	Rat / IgG1, kappa	Published species	Rat, Non-human primate, Human, Mouse, Rhesus monkey, Not Applicable
Class	Monoclonal		
Type	Antibody	Tested Applications	
Clone	JES3-9D7	ELISA (ELISA)	Assay-dependent
Immunogen	Recombinant human Interleukin 10.	Flow Cytometry (Flow)	Assay-dependent
Conjugate	Unconjugated	Neutralization (Neu)	Assay-dependent
Form	Liquid	Published Applications	
Concentration	1 mg/mL	ELISA (ELISA)	See 6 publications below
Purification	purified	Flow Cytometry (Flow)	See 5 publications below
Storage buffer	PBS, pH 7.2	Miscellaneous PubMed (Misc)	See 11 publications below
Contains	no preservative	Immunohistochemistry (IHC)	See 1 publications below
Storage Conditions	-20°C	Neutralization (Neu)	See 3 publications below
		Immunohistochemistry (Paraffin) (IHC (P))	See 1 publications below

* 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.

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 (JES3-9D7)

6 ELISA References

Species / Dilution	Summary
Rat / Not Cited	AHC0103 was used in an ELISA assay to study the protective effects of sevoflurane on hepatic ischemia/reperfusion liver injury.
	Experimental and therapeutic medicine (2019; 17: 2632) "Sevoflurane exerts protective effects on liver ischemia/reperfusion injury by regulating <i>NFKB3</i> expression via miR-9-5p." Author(s):Liao X,Zhou S,Zong J,Wang Z PubMed Article URL: http://dx.doi.org/10.3892/etm.2019.7272
Human / Not Cited	AHC0102 was used in an ELISA assay to study bone marrow derived chemokines of naive and therapy refractory myeloma patients.
	Oncotarget (2016; 7: 78605) "CCR10/CCL27 crosstalk contributes to failure of proteasome-inhibitors in multiple myeloma." Author(s):Thangavadeivel S,Zelle-Rieser C,Olivier A,Postert B,Untergasser G,Kern J,Brunner A,Gunsilius E,Biedermann R,Hajek R,Pour L,Willenbacher W,Greil R,Jöhrer K PubMed Article URL: http://dx.doi.org/10.18632/oncotarget.12522
Human / Not Cited	Infection and immunity (2000; 68: 5284) "Cytokine responses to treponema pectinovorum and treponema denticola in human gingival fibroblasts." Author(s):Nixon CS,Steffen MJ,Ebersole JL PubMed Article URL: http://dx.doi.org/10.1128/IAI.68.9.5284-5292.2000
Non-human primate / Not Cited	Journal of medical virology (2001; 65: 561) "Multiplex analysis of cytokines in the blood of cynomolgus macaques naturally infected with Ebola virus (Reston serotype)." Author(s):Hutchinson KL,Villinger F,Miranda ME,Ksiazek TG,Peters CJ,Rollin PE PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/11596094
Human / Not Cited	Immunological reviews (1992; 127: 5) "Strategies of anti-cytokine monoclonal antibody development: immunoassay of IL-10 and IL-5 in clinical samples."
Mouse / Not Cited	Author(s):Abrams JS,Roncarolo MG,Yssel H,Andersson U,Gleich GJ,Silver JE
Rat / Not Cited	PubMed Article URL: http://dx.doi.org/10.1111/j.1600-065x.1992.tb01406.x
Human / Not Cited	AHC0102 was used in ELISA to elucidate the mechanism of TNF-alpha-augmented mucosal T cell IFN-gamma production.
	Journal of immunology (Baltimore, Md. : 1950) (1999; 163: 4277) "A soluble factor produced by lamina propria mononuclear cells is required for TNF-alpha enhancement of IFN-gamma production by T cells." Author(s):Prehn JL,Landers CJ,Targan SR PubMed Article URL: http://www.ncbi.nlm.nih.gov/pubmed/10510366

5 Flow Cytometry References

Species / Dilution	Summary
Human / Not Cited	AHC0102 was used in flow cytometry to report that IgA-producing plasma cells are a major source of inducible NO synthase in Helicobacter pylori-infected patients
	Journal of immunology (Baltimore, Md. : 1950) (2016; 197: 1801) "Mucosal Inducible NO Synthase-Producing IgA+ Plasma Cells in Helicobacter pylori-Infected Patients." Author(s):Neumann L,Mueller M,Moos V,Heller F,Meyer TF,Loddenkemper C,Bojarski C,Fehlings M,Doerner T,Allers K,Aebischer T,Ignatius R,Schneider T PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.1501330
Non-human primate / Not Cited	AHC0102 was used in flow cytometry to report that B cells modulate the local granulomatous response in Mycobacterium tuberculosis-infected macaques during acute infection
	Infection and immunity (2016; 84: 1301) "Effects of B Cell Depletion on Early Mycobacterium tuberculosis Infection in Cynomolgus Macaques." Author(s):Phuah J,Wong EA,Gideon HP,Maiello P,Coleman MT,Hendricks MR,Ruden R,Cirincione LR,Chan J,Lin PL,Flynn JL PubMed Article URL: http://dx.doi.org/10.1128/IAI.00083-16
Rhesus monkey / Not Cited	AHC0102 was used in flow cytometry to identify and characterize CXCR5hiCD44hiCD8 T cells in HIV-infected individuals PLoS pathogens (2016; 12:) "Follicular Regulatory CD8 T Cells Impair the Germinal Center Response in SIV and Ex Vivo HIV Infection." Author(s):Miles B,Miller SM,Folkvord JM,Levy DN,Rakasz EG,Skinner PJ,Connick E PubMed Article URL: http://dx.doi.org/10.1371/journal.ppat.1005924

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	AHC0102 was used in flow cytometry to investigate the involvement of the PD-1 system in rheumatoid arthritis
Not Applicable / Not Cited	<p>The Journal of rheumatology (2003; 30: 1410)</p> <p>"CD4+ PD-1+ T cells accumulate as unique anergic cells in rheumatoid arthritis synovial fluid."</p> <p>Author(s):Hatachi S,Iwai Y,Kawano S,Morinobu S,Kobayashi M,Koshiba M,Saura R,Kurosaka M,Honjo T,Kumagai S</p> <p>PubMed Article URL:http://www.ncbi.nlm.nih.gov/pubmed/12858435</p>
	AHC0102 was used in flow cytometry to demonstrate that freezing already-stained samples suspended in 10% DMSO in FBS is practical and efficient way to preserve already-stained samples for mass cytometry assessment
Human / Not Cited	<p>Cytometry. Part A : the journal of the International Society for Analytical Cytology (2017; 91: 48)</p> <p>"Optimization of mass cytometry sample cryopreservation after staining."</p> <p>Author(s):Sumatoh HR,Teng KW,Cheng Y,Newell EW</p> <p>PubMed Article URL:http://dx.doi.org/10.1002/cyto.a.23014</p>
11 Miscellaneous PubMed References	
Species / Dilution	Summary
	<p>AHC0102 was used in flow cytometry to determine cytokine profiles of CD4(+) T-helper (h) cells in adults and young children vaccinated with the antigens PspA, PcpA, PhtD, PhtE, Ply, LytB of Streptococcus pneumonia and protein D and OMP26 of non-typeable Haemophilus influenza.</p>
Human / Not Cited	<p>Vaccine (2013; 31: 3090)</p> <p>"CD4+ T-cell responses among adults and young children in response to Streptococcus pneumoniae and Haemophilus influenzae vaccine candidate protein antigens."</p> <p>Author(s):Sharma SK,Roumanes D,Almudevar A,Mosmann TR,Pichichero ME</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.vaccine.2013.03.060</p>
	AHC0102 was used in flow cytometry to measure cytokines after head injury.
Human / Not Cited	<p>Shock (Augusta, Ga.) (1999; 12: 10)</p> <p>"Transient monocyte release of interleukin-10 in response to traumatic brain injury."</p> <p>Author(s):Shimonkevitz R,Bar-Or D,Harris L,Dole K,McLaughlin L,Yukl R</p> <p>PubMed Article URL:http://dx.doi.org/10.1097/00024382-199907000-00002</p>
	AHC0102 was used in flow cytometry to elucidate the role of A2ARs in the regulation of immune response.
Human / Not Cited	<p>Molecular pharmacology (1999; 55: 614)</p> <p>"Patterns of A2A extracellular adenosine receptor expression in different functional subsets of human peripheral T cells. Flow cytometry studies with anti-A2A receptor monoclonal antibodies."</p> <p>Author(s):Koshiba M,Rosin DL,Hayashi N,Linden J,Sitkovsky MV</p> <p>PubMed Article URL:http://www.ncbi.nlm.nih.gov/pubmed/10051547</p>
	AHC0102 was used in blocking assay to examine the effect of immune complexes on interleukin-12 secretion by human monocytes.
Human / Not Cited	<p>European journal of immunology (1997; 27: 2994)</p> <p>"Immune complexes are potent inhibitors of interleukin-12 secretion by human monocytes."</p> <p>Author(s):Berger S,Chandra R,Balló H,Hildenbrand R,Stutte HJ</p> <p>PubMed Article URL:http://dx.doi.org/10.1002/eji.1830271136</p>
	AHC0102 was used in flow cytometry to characterizes the systemic and local cell-mediated immune responses control granuloma growth in Leishmania braziliensis-infected maxaques
Non-human primate / Not Cited	<p>Veterinary immunology and immunopathology (2010; 137: 149)</p> <p>"Systemic and compartmentalised immune responses in a Leishmania braziliensis-macaque model of self-healing cutaneous leishmaniasis."</p> <p>Author(s):de-Campos SN,Souza-Lemos C,Teva A,Porrozzi R,Grimaldi G</p> <p>PubMed Article URL:http://dx.doi.org/10.1016/j.vetimm.2010.04.009</p>
	AHC0102 was used in blocking assay to study if IFN- has immunomodulatory effects in HCV- infected individuals.
Human / Not Cited	<p>PloS one (2013; 7:)</p> <p>"Type III interferons, IL-28 and IL-29, are increased in chronic HCV infection and induce myeloid dendritic cell-mediated FoxP3+ regulatory T cells."</p> <p>Author(s):Dolganiuc A,Kodys K,Marshall C,Saha B,Zhang S,Bala S,Szabo G</p> <p>PubMed Article URL:http://dx.doi.org/10.1371/journal.pone.0044915</p>
	AHC0102 was used in flow cytometry to measure cytokine production by intestinal T cells isolated from patients with spondyloarthropathy.
Human / Not Cited	<p>Annals of the rheumatic diseases (2001; 60: 495)</p> <p>"Flow cytometric analysis of gut mucosal lymphocytes supports an impaired Th1 cytokine profile in spondyloarthropathy."</p> <p>Author(s):Van Damme N,De Vos M,Baeten D,Demetter P,Mielants H,Verbruggen G,Cuvelier C,Veys EM,De Keyser F</p> <p>PubMed Article URL:http://dx.doi.org/10.1136/ard.60.5.495</p>

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	AHC0102 was used in blocking assay to determine the roles of immune complexes in HCV-specific cytotoxic T lymphocyte induction.
Human / Not Cited	Immunology (1998; 94: 461) "Cross-linking of Fc(gamma)-receptor on monocytes inhibits hepatitis C virus-specific cytotoxic T-lymphocyte induction in vitro." Author(s):Kanto T,Hayashi N,Takehara T,Katayama K,Ito A,Mochizuki K,Kuzushita N,Tatsumi T,Sasaki Y,Kasahara A,Hori M PubMed Article URL: http://dx.doi.org/10.1046/j.1365-2567.1998.00538.x
	AHC0102 was used in flow cytometry to characterize CD8 cells present in chronic hepatitis B virus.
Human / Not Cited	The Journal of experimental medicine (2002; 195: 1089) "Escaping high viral load exhaustion: CD8 cells with altered tetramer binding in chronic hepatitis B virus infection." Author(s):Reignat S,Webster GJ,Brown D,Ogg GS,King A,Seneviratne SL,Dusheiko G,Williams R,Maini MK,Bertoletti A PubMed Article URL: http://dx.doi.org/10.1084/jem.20011723
	AHC0102 was used in flow cytometry to describe a 6-color assay to analyze peripheral blood dendritic cell responses upon whole blood stimulation.
Human / Not Cited	Journal of immunological methods (2008; 339: 153) "Application of six-color flow cytometry for the assessment of dendritic cell responses in whole blood assays." Author(s):Della Bella S,Giannelli S,Taddeo A,Presicce P,Villa ML PubMed Article URL: http://dx.doi.org/10.1016/j.jim.2008.09.009
	AHC0102 was used in flow cytometry to report an in vitro differentiation assay in which human naive CD4(+) cells are driven toward either the Th1 or Th2 phenotype and study them.
Human / 5 µg/ml	Journal of immunology (Baltimore, Md. : 1950) (2002; 169: 2498) "Cytokine coexpression during human Th1/Th2 cell differentiation: direct evidence for coordinated expression of Th2 cytokines." Author(s):Cousins DJ,Lee TH,Staynov DZ PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.169.5.2498

1 Immunohistochemistry References

Species / Dilution	Summary
	AHC0102 was used in immunohistochemistry to examine links between SIV viral reservoir sites, CD8+ T-cell activation /death and outcome
Not Applicable / Not Cited	Cell death and differentiation (2007; 14: 1747) "TGF-beta in intestinal lymphoid organs contributes to the death of armed effector CD8 T cells and is associated with the absence of virus containment in rhesus macaques infected with the simian immunodeficiency virus." Author(s):Cumont MC,Monceaux V,Viollat L,Lay S,Parker R,Hurtrel B,Estaquier J PubMed Article URL: http://dx.doi.org/10.1038/sj.cdd.4402192

3 Neutralization References

Species / Dilution	Summary
	AHC0102 was used in blocking or activating experiment to determine the presence and functional characteristics of T regulatory cells in colonic lymphoid tissues in patients with ulcerative colitis
Not Applicable / Not Cited	Inflammatory bowel diseases (2007; 13: 191) "Expression and functional characterization of FOXP3+ CD4+ regulatory T cells in ulcerative colitis." Author(s):Yu QT,Saruta M,Avanesyan A,Fleshner PR,Banham AH,Papadakis KA PubMed Article URL: http://dx.doi.org/10.1002/ibd.20053
Not Applicable / 2.5 µl/10 ⁶ cells	AHC0102 was used in blocking or activating experiment to assess the relationship between interleukin-10 promoter -1082 polymorphism and cell-mediated immune response during Chlamydia trachomatis infection
	Genes and immunity (2006; 7: 243) "IL-10 polymorphism and cell-mediated immune response to Chlamydia trachomatis." Author(s):Ohman H,Tiitinen A,Halttunen M,Birkelund S,Christiansen G,Koskela P,Lehtinen M,Paavonen J,Surcel HM PubMed Article URL: http://dx.doi.org/10.1038/sj.gene.6364293
Not Applicable / Not Cited	AHC0102 was used in blocking or activating experiment to show that TGF-beta1 is involved in the suppressive activity of Leishmania guyanensis-stimulated CD4+ CD25+ T cells from healthy controls
	Infection and immunity (2005; 73: 5908) "Transforming growth factor beta 1 production by CD4+ CD25+ regulatory T cells in peripheral blood mononuclear cells from healthy subjects stimulated with Leishmania guyanensis." Author(s):Kariminia A,Bourreau E,Pascalis H,Couppié P,Sainte-Marie D,Tacchini-Cottier F,Launois P PubMed Article URL: http://dx.doi.org/10.1128/IAI.73.9.5908-5914.2005

1 Immunohistochemistry (Paraffin) References

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Species / Dilution	Summary
	AHC0102 was used in immunohistochemistry - paraffin section to determine the in vivo distribution of Foxp3+CD4+CD25+ cells in mice that have recovered from colitis
Not Applicable / Not Cited	Journal of immunology (Baltimore, Md. : 1950) (2006; 177: 5852) "Characterization of Foxp3+CD4+CD25+ and IL-10-secreting CD4+CD25+ T cells during cure of colitis." Author(s):Uhlig HH,Coombes J,Mottet C,Izcue A,Thompson C,Fanger A,Tannapfel A,Fontenot JD,Ramsdell F,Powrie F PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.177.9.5852