

CD86 Monoclonal Antibody (RMMP-2), PE

Catalog NumberMA5-17953

Product data sheet

Details		Species Reactivity	
Size	50 µg	Species reactivity	Mouse
Host/Isotope	Rat / IgG2a	Published species	Mouse, Not Applicable
Class	Monoclonal	Tested Applications	Dilution *
Type	Antibody	Flow Cytometry (Flow)	1.0 µg/1x10^6 cells
Clone	RMMP-2	Published Applications	
Immunogen	Mouse CD86 (B7-2)	Flow Cytometry (Flow)	See 1 publications below
Conjugate	PE	Miscellaneous PubMed (Misc)	See 3 publications below
Form	Liquid	* 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.	
Concentration	0.1 mg/mL		
Purification	Protein G		
Storage buffer	PBS with 4-5mg/mL BSA		
Contains	0.02% sodium azide		
Storage Conditions	4° C, do not freeze		

Background/Target Information

CD86 is one of two ligands (the other CD80) for CTLA4 and CD28. CD86 acts as costimulatory molecule in eliciting T-cell help during antigen presentation. Antigen presentation in the absence of sufficient co-stimulation involving CD86/CD80 can induce tolerance. CD80 appears to play a role distinct from CD80 in T helper cell differentiation. CD86 is a type I membrane protein that is a member of the immunoglobulin superfamily. The CD86 protein is expressed by antigen-presenting cells, and it is the ligand for two proteins at the cell surface of T cells, CD28 antigen and cytotoxic T-lymphocyte-associated protein 4. Binding of CD86 with CD28 antigen is a costimulatory signal for activation of the T-cell. Binding of CD86 with cytotoxic T-lymphocyte-associated protein 4 negatively regulates T-cell activation and diminishes the immune response. Alternative splicing results in two transcript variants encoding different isoforms of CD86. Additional transcript variants have been described for CD86, but their full-length sequences have not been determined. Diseases associated with CD86 dysfunction include gallbladder squamous cell carcinoma and myocarditis.

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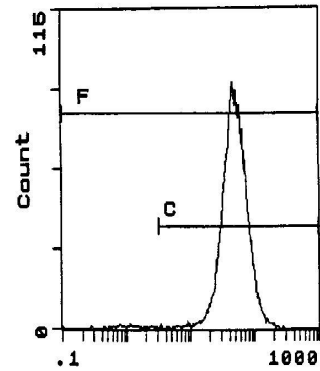
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CD86 Antibody (MA5-17953) in Flow

Flow cytometric analysis of EL-4 B7-2 Cells staining using anti-CD86/B7-2 Monoclonal Antibody (Product # MA5-17953) at a 1.0 µg/10⁶ cells dilution. The Isotypic control was a PE Rat IgG2a



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PubMed References For CD86 Monoclonal Antibody (RMMP-2), PE

1 Flow Cytometry References

Species / Dilution	Summary
Not Applicable / Not Cited	MA5-17953 was used in flow cytometry to study the effect of inactivated Parapoxvirus ovis on dendritic cells
	Journal of virology (2009; 83: 9411)
	"Conventional bone marrow-derived dendritic cells contribute to toll-like receptor-independent production of alpha/beta interferon in response to inactivated parapoxvirus ovis." Author(s):Siegemund S,Hartl A,von Buttlar H,Dautel F,Raue R,Freudenberg MA,Fejer G,Büttner M,Köhler G,Kirschning CJ,Sparwasser T,Alber G PubMed Article URL: http://dx.doi.org/10.1128/JVI.02362-08

3 Miscellaneous PubMed References

Species / Dilution	Summary
Mouse / Not Cited	MA5-17953 was used in flow cytometry to examine the contribution of different DC subsets during infection with Cryptococcus neoformans.
	Journal of immunology (Baltimore, Md. : 1950) (2000; 165: 158)
	"Dendritic cells in the induction of protective and nonprotective anticytotoxic cell-mediated immune responses." Author(s):Bauman SK,Nichols KL,Murphy JW PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.165.1.158
Mouse / Not Cited	MA5-17953 was used in flow cytometry to investigate homeostatic B cell proliferation.
	Journal of immunology (Baltimore, Md. : 1950) (2002; 169: 6795)
	"Naive B lymphocytes undergo homeostatic proliferation in response to B cell deficit." Author(s):Cabatingan MS,Schmidt MR,Sen R,Woodland RT PubMed Article URL: http://dx.doi.org/10.4049/jimmunol.169.12.6795
Mouse / Not Cited	MA5-17953 was used in flow cytometry to assess the contribution of DC function in non-obese diabetic mice.
	Clinical and experimental immunology (2003; 134: 388)
	"Passive transfer of flt-3L-derived dendritic cells delays diabetes development in NOD mice and associates with early production of interleukin (IL)-4 and IL-10 in the spleen of recipient mice." Author(s):Morin J,Faideau B,Gagnerault MC,Lepault F,Boitard C,Boudaly S PubMed Article URL: http://dx.doi.org/10.1111/j.1365-2249.2003.02308.x

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