CD86/B7-2 (GL-1) Rat mAb (APC Conjugate)



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Applications: FC-FP, FC-L	Reactivity: M	Sensitivity: Endogenous	Source/Isotype: Rat IgG2a kappa	UniProt ID: #P42082	Entrez-Gene Id: 12524
Product Usage		For optimal flow cytometry results, we recommend 0.06 μg of antibody per test.			
Information		Application			Dilution
		Flow Cytometry (Fixed/Permeabilized)			1:330
		Flow Cytometry (Live)			1:330
Storage		Supplied in 10 mM NaH2PO4, 150 mM NaCl, 0.09% NaN3, 0.1% gelating for 12 months when stored at 4° C. Do not aliquot the antibody. Protection			
Specificity/Sensitivity		CD86/B7-2 (GL-1) Rat mAb (APC Conjugate) recognizes endogenous levels of total CD86/B7-2 protein. This antibody detects an epitope within the extracellular domain.			
Source / Purification		This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.			
Description		This Cell Signaling Technology antibody is conjugated to APC and tested in-house for direct flow cytometric analysis in mouse cells.			
Background		CD80 (B7-1, BB1) and CD86 (B7-2, B70) are members of the B7 family of cell surface ligands that regulate T cell activation and immune responses. CD80 is expressed on activated antigen presenting cells, including dendritic cells, B cells, monocytes, and macrophages. CD86 is expressed on resting monocytes, dendritic cells, activated B lymphocytes, and can be further upregulated in the presence of inflammation (1-3). CD80 and CD86 are ligands for CD28, which functions as a T cell costimulatory receptor. Interaction of CD28 with CD80 or CD86 provides the second signal required for naïve T cell activation, T cell proliferation, and acquisition of effector functions (3-7). Alternatively, CD80 and CD86 also act as ligands to CTLA-4, which results in the downregulation of T cell activity (3,7-9). The GL-1 antibody is used as a marker for CD86 expression on B cells, macrophages, and dendritic cells.			
Background Ref	erences	1. Freeman, G.J. et al. (1989) <i>J Immunol</i> 143, 2714-22. 2. Azuma, M. et al. (1993) <i>Nature</i> 366, 76-9. 3. Adams, A.B. et al. (2016) <i>J Immunol</i> 197, 2045-50. 4. Linsley, P.S. et al. (1990) <i>Proc Natl Acad Sci U S A</i> 87, 5031-5. 5. Gimmi, C.D. et al. (1991) <i>Proc Natl Acad Sci U S A</i> 88, 6575-9. 6. Harding, F.A. et al. (1992) <i>Nature</i> 356, 607-9. 7. Collins, A.V. et al. (2002) <i>Immunity</i> 17, 201-10. 8. Linsley, P.S. et al. (1991) <i>J Exp Med</i> 174, 561-9. 9. Krummel, M.F. and Allison, J.P. (1995) <i>J Exp Med</i> 182, 459-65.			

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized) FC-L: Flow Cytometry (Live)

Cross-Reactivity Key

M: Mouse

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