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

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP, FC-L	M	Endogenous	Rat IgG2a kappa	#P42082	12524
Product Usage Information	For optimal flow cytometry results, we recommend 0.125 µg of antibody per test.				
	Application				Dilution
	Flow Cytometry (Fixed/Permeabilized)				1:400
	Flow Cytometry (Live)				1:400
Storage	Supplied in 10 mM NaH ₂ PO ₄ , 150 mM NaCl, 0.09% NaN ₃ , 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.				
Specificity/Sensitivity	CD86/B7-2 (GL-1) Rat mAb (FITC 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 FITC 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 naive 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 References	<ol style="list-style-type: none"> Freeman, G.J. et al. (1989) <i>J Immunol</i> 143, 2714-22. Azuma, M. et al. (1993) <i>Nature</i> 366, 76-9. Adams, A.B. et al. (2016) <i>J Immunol</i> 197, 2045-50. Linsley, P.S. et al. (1990) <i>Proc Natl Acad Sci U S A</i> 87, 5031-5. Gimmi, C.D. et al. (1991) <i>Proc Natl Acad Sci U S A</i> 88, 6575-9. Harding, F.A. et al. (1992) <i>Nature</i> 356, 607-9. Collins, A.V. et al. (2002) <i>Immunity</i> 17, 201-10. Linsley, P.S. et al. (1991) <i>J Exp Med</i> 174, 561-9. 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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