

CD86 Rat Anti-Mouse mAb (clone GL1) PE-Cy[®]5 Conjugate

Store at 2°C to 8°C

Pub. No. MAN0008563 Rev. 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A16406	PE-Cy [®] 5	50 µg (0.2 mg/mL)	488 nm	670 nm

Clone	GL1
Host/Class	Rat IgG2ak
Description	The CD86 Mouse Anti-Rat mAb recognizes rat CD86, a ~80 kDa surface receptor. CD86 and CD80 are members of the B7 family of costimulatory molecules. CD86 is expressed at low level on macrophages, B cells, and dendritic cells and is upregulated on B cells through surface stimuli including CD40, the BCR complex, and some cytokine receptors. CD86 expression is also on activated mouse T cells and thioglycolate-elicited peritoneal cells. Together with CD80, CD86 is a counter-receptor for the T cell surface molecules CD28 and CD152. This interaction plays a critical role in T cell costimulation, T-B crosstalk, autoantibody production and Th2-mediated Ig production. In addition, CD86 contributes to the primary phase of an immune response.
Alternate Names	B72, B7.2, B70, Ly-58
Reactivity	Mouse CD86
Applications*	FC (resting and activated mouse splenocyte suspensions)
Storage Buffer	The reagent is provided in aqueous buffer with 0.09% sodium azide, and may contain carrier protein/stabilizer. CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support .
Storage	Store reagents in the dark at 2° to 8°C. Do not freeze. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Avoid prolonged light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.
Stability	When stored as instructed, expires one year from date of receipt unless otherwise indicated on Certificate of Analysis.
Lot Number	See product label.
References	<ol style="list-style-type: none"> Hathcock, K. S., G. Laszlo, et al. 1993. Identification of an alternative CTLA-4 ligand costimulatory for T cell activation [see comments]. <i>Science</i>. 262(5135): 905-7. Freeman, G. J., F. Borriello, et al. 1993. Murine B7-2, an alternative CTLA4 counter-receptor that costimulates T cell proliferation and interleukin 2 production. <i>J Exp Med</i>. 178(6): 2185-92. Inaba, K., M. Witmer-Pack, et al. 1994. The tissue distribution of the B7-2 costimulator in mice: abundant expression on dendritic cells in situ and during maturation in vitro. <i>J Exp Med</i>. 180(5): 1849-60. Hathcock, K. S., G. Laszlo, et al. 1994. Comparative analysis of B7-1 and B7-2 costimulatory ligands: expression and function. <i>J Exp Med</i>. 180(2): 631-40.

* Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.








FC = flow cytometry; FUNC = functional assay; ICC = immunocytochemistry; IHC(F) = immunohistochemistry (frozen sample); IHC(P) = immunohistochemistry (paraffin embedded sample); IP = immunoprecipitation; RIA = radioimmunoassay; WB = western blot

For Research Use Only. Not for use in diagnostic procedures.

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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