

Product Information

Contents: Fluorescein isothiocyanate (FITC) anti-mouse CD80 (B7-1)

Catalog Number: 11-0801

Sizes: 50 ug, 100 ug, 500 ug, 1 mg

Formulation: Phosphate buffer pH 7.2, 150 mM NaCl, 0.09% NaN₃

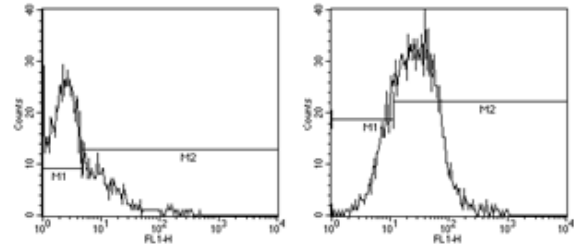
Storage Conditions: Store at 4°C.

DO NOT FREEZE.

LIGHT-SENSITIVE MATERIAL.

Clone: 16-10A1

Isotype: Armenian Hamster IgG



Staining of unstimulated (left) or 3-day LPS activated (right) C57Bl/6 splenocytes with 0.125 µg of FITC 16-10A1. Total viable cells were used for analysis. Markers were set based on the autofluorescence sample.

Available Formats of This Product

Cat. No.	Format	Excite (nm)	Emit (nm)	Reported Applications
11-0801	FITC anti-mouse CD80 (B7-1)	488	518	FC
12-0801	PE anti-mouse CD80 (B7-1)	488	575	FC
13-0801	Biotin anti-mouse CD80 (B7-1)	N/A	N/A	FC
14-0801	Affinity Purified anti-mouse CD80 (B7-1)	N/A	N/A	FA FC IHC IP
15-0801	Phycoerythrin-Cy5 (PE-Cy5) anti-mouse CD80 (B7-1)	488	670	FC
16-0801	Functional Grade* Purified anti-mouse CD80 (B7-1)	N/A	N/A	FA FC
17-0801	APC anti-mouse CD80 (B7-1)	633	660	FC

*Functional Grade™ (FG™): Azide-free, sterile-filtered, and endotoxin < 0.001 ng/µg.
Purified: Contains azide, not sterile-filtered, and not endotoxin tested.

Description

The 16-10A1 monoclonal antibody reacts with mouse CD80 (B7-1), a 55 kDa member of the Ig superfamily. CD80 is expressed by macrophages, dendritic cells and activated B cells. In addition, activated T cells express this antigen. CD80 has high affinity for binding to two T cell surface antigens, CD28 and CD152 (CTLA-4). The interaction of CD28 and CD152 with CD80 is crucial in T-B cell communication leading to activation of T and B cells, respectively.

Usage

For research use only, not for diagnostic or therapeutic use. The 16-10A1 antibody has been reported for use in flow cytometric analysis.

Applications Tested

The 16-10A1 antibody has been tested by flow cytometric analysis of activated mouse splenocyte suspensions. This can be used at less than or equal to 0.5 µg per million cells in a 100 µl total staining volume. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

Related Products

- Cat. 12-0801 PE anti-mouse CD80 (B7-1) (clone 16-10A1)
- Cat. 13-0801 Biotin anti-mouse CD80 (B7-1) (clone 16-10A1)
- Cat. 14-0801 Affinity Purified anti-mouse CD80 (B7-1) (clone 16-10A1)
- Cat. 15-0801 Phycoerythrin-Cy5 (PE-Cy5) anti-mouse CD80 (B7-1) (clone 16-10A1)

Cat. 16-0801 Functional Grade Purified anti-mouse CD80 (B7-1) (clone 16-10A1)
Cat. 17-0801 APC anti-mouse CD80 (B7-1) (clone 16-10A1)
Cat. 11-4444 FITC Armenian Hamster IgG Isotype Control (clone n/a)

References

Galvin, F., G. J. Freeman, et al. (1992). "Murine B7 antigen provides a sufficient costimulatory signal for antigen-specific and MHC-restricted T cell activation." J Immunol 149(12): 3802-8.

Razi-Wolf, Z., G. J. Freeman, et al. (1992). "Expression and function of the murine B7 antigen, the major costimulatory molecule expressed by peritoneal exudate cells." Proc Natl Acad Sci U S A 89(9): 4210-4.

Razi-Wolf, Z., L. D. Falo, Jr., et al. (1994). "Expression and function of the costimulatory molecule B7 on murine Langerhans cells: evidence for an alternative CTLA-4 ligand." Eur J Immunol 24(4): 805-11.

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