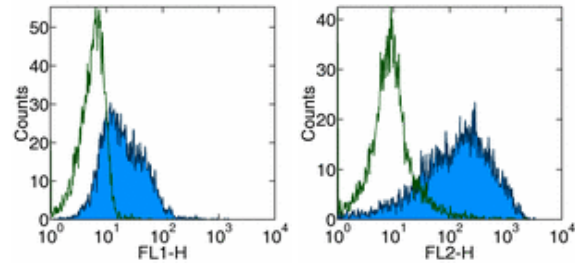


Product Information

Contents: Affinity Purified anti-mouse CD80 (B7-1)
Catalog Number: 14-0801
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.
Avoid repeated freeze/thaw cycles.
Clone: 16-10A1
Isotype: Armenian Hamster IgG



Surface staining of LPS stimulated splenocytes with anti-mouse CD80 (16-10A1) FITC (left), and PE (right). Appropriate isotype controls were used (open histogram). Total viable cells were used for analysis.

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, immunoprecipitation, and immunohistochemical staining. 16-10A1 has also been reported in blocking of CD80 to its ligands. (Please use Functional Grade purified 16-10A1, cat. 16-0801, in functional assays.)

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. 11-0801 FITC anti-mouse CD80 (B7-1) (clone 16-10A1)
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. 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. 11-4111 FITC Anti-Armenian Hamster IgG
Cat. 13-4113 Biotin Anti-Armenian Hamster IgG (clone Polyclonal)
Cat. 11-4317 Streptavidin-FITC (Fluorescein isothiocyanate)
Cat. 12-4317 Streptavidin-PE (Phycoerythrin)
Cat. 17-4317 Streptavidin Allophycocyanin (SA-APC)
Cat. 16-4444 Functional Grade Purified 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.