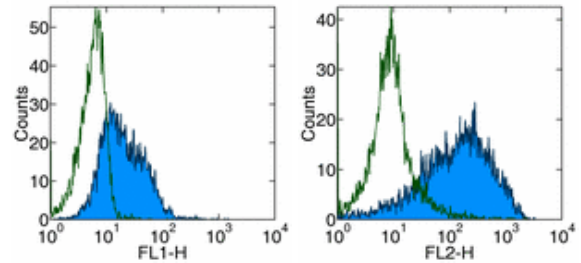


Product Information

Contents: Functional Grade Purified anti-mouse CD80 (B7-1)
Catalog Number: 16-0801
Sizes: 50 ug, 100 ug, 500 ug, 1 mg
Formulation: Phosphate buffer pH 7.2,
150 mM NaCl, No NaN₃
Storage Conditions: Store at 4°C.
Avoid repeated freeze/thaw cycles.
KEEP CONTENT STERILE.
Endotoxin Level: Less than 0.001 ng/ug antibody, as determined
by the LAL assay.
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. 16-10A1 has also been reported in blocking of CD80 to its ligands.

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. 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. 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.