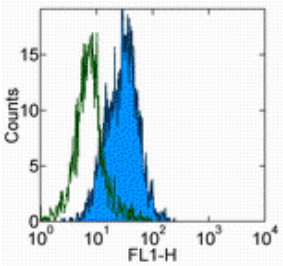
Anti-Mouse CD80 (B7-1) Purified

Catalog Number: 14-0801
Also Known As:B71, Ly-53
RUO: For Research Use Only. Not for use in diagnostic procedures.



Staining of 3-day LPS-stimulated BALB/c splenocytes with 0.25 ug of Armenian Hamster IgG Isotype Control Purified (cat. 14-4888) (open histogram) or 0.25 ug of Anti-Mouse CD80 (B7-1) Purified (filled histogram) followed by Anti-Armenian Hamster IgG FITC (cat. 11-4111). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD80 (B7-1) Purified
REF **Catalog Number:** 14-0801
Clone: 16-10A1
Concentration: 0.5 mg/mL
Host/Isotype: Armenian Hamster IgG

Formulation: aqueous buffer, 0.09% sodium azide, may contain carrier protein/stabilizer
Temperature Limitation: Store at 2-8°C.
LOT **Batch Code:** Refer to Vial
Use By: Refer to Vial
Caution, contains Azide

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.

Applications Reported

This 16-10A1 antibody has been reported for use in flow cytometric analysis, immunoprecipitation, and immunohistology staining of frozen tissue sections. 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 test. A test is defined as the amount (µg) of antibody that will stain a cell sample in a final volume of 100 µL. Cell number should be determined empirically but can range from 10^5 to 10^8 cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

References

Zhang B, Wang Z, Ding J, Peterson P, Gunning WT, Ding HF. NF-kappaB2 is required for the control of autoimmunity by regulating the development of medullary thymic epithelial cells. J Biol Chem. 2006 Dec 15;281(50):38617-24. (**16-10A1**, IHC frozen)

Odobasic D, Kitching AR, Semple TJ, Timoshanko JR, Tipping PG, Holdsworth SR. Glomerular expression of CD80 and CD86 is required for leukocyte accumulation and injury in crescentic glomerulonephritis. J Am Soc Nephrol. 2005 Jul;16(7):2012-22. (**16-10A1**, FA and IHC frozen)

Hancock WW, Sayegh MH, Zheng XG, Peach R, Linsley PS, Turka LA. Costimulatory function and expression of CD40 ligand, CD80, and CD86 in vascularized murine cardiac allograft rejection. Proc Natl Acad Sci U S A. 1996 Nov 26;93(24):13967-72. (**16-10A1**, IHC frozen)

Razi-Wolf Z, Falo LD Jr, Reiser H. Expression and function of the costimulatory molecule B7 on murine Langerhans cells: evidence for an alternative CTLA-4 ligand. Eur J Immunol. 1994 Apr;24(4):805-11.

Galvin F, Freeman GJ, Razi-Wolf Z, Hall W Jr, Benacerraf B, Nadler L, Reiser H. Murine B7 antigen provides a sufficient costimulatory signal for antigen-specific and MHC-restricted T cell activation. J Immunol. 1992 Dec 15;149(12):3802-8.

Razi-Wolf Z, Freeman GJ, Galvin F, Benacerraf B, Nadler L, Reiser H. Expression and function of the murine B7 antigen, the major costimulatory molecule expressed by peritoneal exudate cells. Proc Natl Acad Sci U S A. 1992 May 1;89(9):4210-4.

Related Products
11-4111 Anti-Armenian Hamster IgG FITC
11-4317 Streptavidin FITC
13-4113 Anti-Armenian Hamster IgG Biotin (Polyclonal)
14-4888 Armenian Hamster IgG Isotype Control Purified (eBio299Arm)
17-4317 Streptavidin APC

Tel: 888.999.1371 or 858.642.2058 • Fax: 858.642.2046 • www.eBioscience.com • info@eBioscience.com