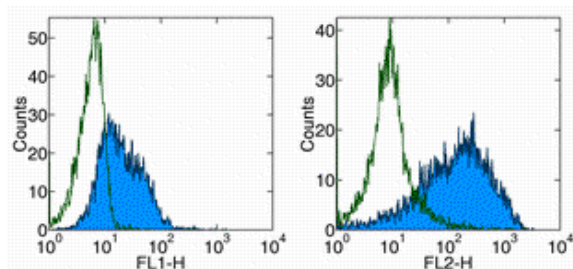


Anti-Mouse CD80 (B7-1) PE

Catalog Number: 12-0801

Also Known As: B71, Ly-53

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



Staining of LPS-stimulated splenocytes with Armenian Hamster IgG Isotype Control FITC (cat. 11-4888) (left, open histogram) or Armenian Hamster IgG Isotype Control PE (cat. 12-4888) (right, open histogram) or Anti-Mouse CD80 (B7-1) FITC (left, filled histogram) and 0.03 μ g of Anti-Mouse CD80 (B7-1) PE (right, filled histogram). Total viable cells were used for analysis.

Product Information

Contents: Anti-Mouse CD80 (B7-1) PE


REF **Catalog Number:** 12-0801

Clone: 16-10A1

Concentration: 0.2 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. Do not freeze. Light sensitive material.

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

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 0.06 μ g per test. A test is defined as the amount (μ g) of antibody that will stain a cell sample in a final volume of 100 μ L. 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

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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

11-4888 Armenian Hamster IgG Isotype Control FITC (eBio299Arm)

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