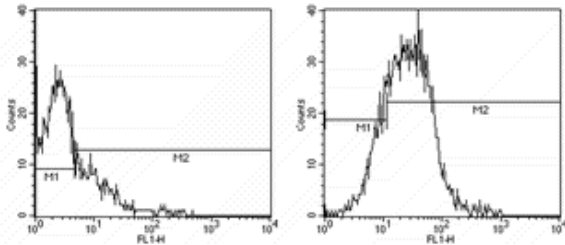


## Anti-Mouse CD80 (B7-1) FITC

**Catalog Number:** 11-0801

**Also Known As:** B71, Ly-53

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



Staining of unstimulated (left) or 3-day LPS-stimulated (right) C57BL/6 splenocytes with 0.125 µg of Anti-Mouse CD80 (B7-1) FITC. Total viable cells were used for analysis. Markers were set based on the autofluorescence sample.

### Product Information

**Contents:** Anti-Mouse CD80 (B7-1) FITC


**REF** **Catalog Number:** 11-0801

**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. 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 0.25 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<sup>5</sup> to 10<sup>8</sup> cells/test. It is recommended that the antibody be carefully titrated for optimal performance in the assay of interest.

### References

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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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