

Monoclonal Antibody to CD80 - FITC

Alternate names:	Activation B7-1 antigen, B7-1, B7.1, BB1, CD28LG, CD28LG1, CTLA-4 counter-receptor B7.1, LAB7, T-lymphocyte activation antigen CD80
Catalog No.:	AM08052FC-N
Quantity:	0.5 mg
Concentration:	0.5 mg/ml
Background:	CD80 is a member of the Ig superfamily and serves as the ligand for two T cell molecules, CD28 and CTLA4. Interactions between CD28 and CD80 on activated B cells result in enhanced T cell activation. CD80 is rapidly induced on the surface of in vitro activated B cells, Epstein Barr Virus (EBV) transformed B cell lines, Burkitts lymphoma cell lines, freshly isolated follicular B lymphoma cells, T cells, and monocytes. It is also expressed at high levels in dendritic cells. It reacts weakly with a small proportion of non activated normal B cells and with HTLV1 infected T cells. CD80 does not react with peripheral monocytes, resting and activated normal T cells, T cell lines and T cell clones, nor with myelomonocytic cell lines.
Uniprot ID:	Q00609
NCBI:	NP_033985.3
GeneID:	12519
Host / Isotype:	Rat / IgG2a
Clone:	1G10
Format:	State: Liquid purified Ig fraction. Buffer System: PBS containing 0.09% Sodium Azide as preservative. Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow Cytometry: < / = 1 µg/10e6 cells. (Ref.2,7) Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	This antibody recognises CD80/B7-1 (Mr. 45-47 kDa). This Monoclonal CD80 antibody 1G10 blocks binding of CTLA-4 to CD80, but it does not block stimulation of T cells by natural antigenpresenting cells. (Ref.2,7).
Species Reactivity:	Tested: Mouse.
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. This product is photosensitive and should be protected from light. Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Nabavi, N., G. J. Freeman, A. Gault, D. Godfrey, L. M. Nadler, and L. H. Glimcher. 1992. Nature 360:266

For research and in vitro use only. Not for diagnostic or therapeutic work.

Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



2. Chen, C., D. A. Faherty, A. Gault, S. E. Connaughton, G. D. Powers, D. I. Godfrey, and N. Nabavi. 1996. J. Immunol. 152:2105.
3. Natesan, M., Z. Razi-Wolf, and H. Reiser. 1996. J. Immunol. 156:2783.
4. Razi-Wolf, Z., G. J. Freeman, F. Galvin, B. Benacerraf, L. Nadler, and H. Reiser. 1992. Proc. Natl. Acad. Sci. U. S. A. 89:4210.
5. Hathcock, K. S., G. Laszlo, C. Pucillo, P. Linsley, and R. J. Hodes. 1994. J. Exp. Med. 180:631.
6. Bluestone, J.A. 1995. Immunity 2:255.
7. Powers, G. D., D. A. Faherty, S. E. Connaughton, D. A. Biondi, D. I. Godfrey, A. Gault, C. Y. Chen, and N. Nabavi. 1994. Cell Immunol. 153:298.

Pictures:

Immunofluorescent Staining with CD80 antibody [1G10] (FITC): P815 cells transfected with CD80 or non-transfected P815 control cells were stained with Rat anti-Mouse CD80 antibody (FITC). Large cells were then gated and analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used: $\leq 3 \mu\text{g}/10\text{e}6$ cells.

