

## Monoclonal Antibody to CD80 - FITC

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| <b>Alternate names:</b>    | Activation B7-1 antigen, B7-1, B7.1, BB1, CD28LG, CD28LG1, CTLA-4 counter-receptor B7.1, LAB7, T-lymphocyte activation antigen CD80   |
| <b>Catalog No.:</b>        | AM05570FC-N   |
| <b>Quantity:</b>           | 0.1 mg  |
| <b>Concentration:</b>      | 0.1 mg/ml   |
| <b>Background:</b>         | 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. |
| <b>Uniprot ID:</b>         | <a href="#">Q00609</a>  |
| <b>NCBI:</b>               | <a href="#">NP_033985.3</a>   |
| <b>GeneID:</b>             | <a href="#">12519</a>   |
| <b>Host / Isotype:</b>     | Rat / IgG2a   |
| <b>Clone:</b>              | RM80  |
| <b>Immunogen:</b>          | BCL1 cells expressing CD80.   |
| <b>Format:</b>             | <b>State:</b> Liquid purified Ig fraction.<br><b>Purification:</b> Affinity Chromatography on Protein G.<br><b>Buffer System:</b> Phosphate buffered saline, pH 7.4 containing 0,09% sodium Azide as preservative and 1% BSA as stabilizer.<br><b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1   |
| <b>Applications:</b>       | <b>Flow Cytometry:</b> Use 10 µl of neat antibody to label 1x10 <sup>6</sup> cells in 100 µl.<br>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.   |
| <b>Specificity:</b>        | This antibody recognises CD80 (B7-1), a 60kD cell surface glycoprotein which is a member of the CD28/B7 family. In mice, CD80 is expressed on monocytes, peritoneal macrophages and dendritic cells. Expression may be significantly increased upon B lymphocytes by LPS and by IL-4.   |
| <b>Species Reactivity:</b> | <b>Tested:</b> Mouse.   |

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

Material Safety Datasheets are available at [www.acris-antibodies.com](http://www.acris-antibodies.com) or on request.

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

**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. Nuriya S, Yagita H, Okumura K, Azuma M. The differential role of CD86 and CD80 co-stimulatory molecules in the induction and the effector phases of contact hypersensitivity. *Int Immunol.* 1996 Jun;8(6):917-26. PubMed PMID: 8671681.
2. Jin LP, Li DJ, Zhang JP, Wang MY, Zhu XY, Zhu Y, et al. Adoptive transfer of paternal antigen-hyporesponsive T cells induces maternal tolerance to the allogeneic fetus in abortion-prone matings. *J Immunol.* 2004 Sep 15;173(6):3612-9. PubMed PMID: 15356105.
3. Nakajima A, Watanabe N, Yoshino S, Yagita H, Okumura K, Azuma M. Requirement of CD28-CD86 co-stimulation in the interaction between antigen-primed T helper type 2 and B cells. *Int Immunol.* 1997 May;9(5):637-44. PubMed PMID: 9184909.
4. Nozawa K, Ohata J, Sakurai J, Hashimoto H, Miyajima H, Yagita H, et al. Preferential blockade of CD8(+) T cell responses by administration of anti-CD137 ligand monoclonal antibody results in differential effect on development of murine acute and chronic graft-versus-host diseases. *J Immunol.* 2001 Nov 1;167(9):4981-6. PubMed PMID: 11673505.

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