

## Monoclonal Antibody to CD80 - PE

<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>	AM08052RP-S
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0.1 mg/ml
<b>Background:</b>	<p>CD80 (B7-1) is a type I transmembrane glycoprotein and a member of the immunoglobulin superfamily of cell surface receptors. It is constitutively expressed by dendritic cells, monocytes, and peritoneal macrophages. Expression of CD80 on B cells is upregulated after activation by various means including stimulation by LPS, IL-4, and surface Ig receptor cross linking with peak expression occurring between 48 and 72 hours postactivation. (Ref.1-4)</p> <p>The interaction of CD80/B7-1 with its ligands, CD28 and CD152/CTLA-4, provides a potent costimulatory signal for T cells activated through the CD3/T cell receptor complex. (Ref.5,6). This Monoclonal 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).</p>
<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>	1G10
<b>Format:</b>	<p><b>State:</b> Liquid purified Ig fraction.</p> <p><b>Buffer System:</b> PBS containing 0.09% Sodium Azide as preservative and a stabilizing agent.</p> <p><b>Label:</b> PE – R-Phycoerythrin</p>
<b>Applications:</b>	<p><b>Flow Cytometry:</b> &lt; / = 0.2 µg/10e6 cells. (Ref.2,7)</p> <p>Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.</p>
<b>Specificity:</b>	<p>This antibody recognises CD80/B7-1 (Mr. 45-47 kDa)</p> <p><b>Species:</b> Mouse.</p> <p>Other species not tested.</p>
<b>Storage:</b>	<p>Store the antibody undiluted at 2-8°C.</p> <p><b>DO NOT FREEZE!</b></p> <p>This product is photosensitive and should be protected from light.</p> <p>Avoid repeated freezing and thawing.</p> <p>Shelf life: one year from despatch.</p>

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- General Readings:**
1. Nabavi, N., G. J. Freeman, A. Gault, D. Godfrey, L. M. Nadler, and L. H. Glimcher. 1992. *Nature* 360:266
  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.

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