

## Monoclonal Antibody to CD86 - FITC

<b>Alternate names:</b>	Activation B7-2 antigen, B7.2, B70, BU63, CD28LG2, CTLA-4 counter-receptor B7.2, FUN-1, T-lymphocyte activation antigen CD86
<b>Catalog No.:</b>	AM05571FC-N
<b>Quantity:</b>	0.1 mg
<b>Concentration:</b>	0,1 mg/ml
<b>Background:</b>	CD86 is an 80kD cell surface glycoprotein which is a member of the CD28/B7 family. In mouse, CD86 is expressed at high levels on peripheral blood monocytes, dendritic cells and at low levels on resting B and T-lymphocytes. Expression of CD86 on these cell populations can be increased upon activation. CD86 has been identified, along with CD80 (B7-1) as a ligand for CD28 and cytotoxic T-lymphocyte antigen-4 (CTLA4). CD28 and CTLA4 are two receptors that have opposing functions in T-cell stimulation. Interaction of CD86 with CD28 promotes a number of T-cell activities, whereas the binding of CD86 to CTLA4 inhibits T-cell responses.
<b>Uniprot ID:</b>	<a href="#">P42082</a>
<b>NCBI:</b>	<a href="#">NP_062261.3</a>
<b>GeneID:</b>	<a href="#">12524</a>
<b>Host / Isotype:</b>	Rat / IgG2b
<b>Clone:</b>	PO3
<b>Immunogen:</b>	Mouse B-cell line, BCL1.
<b>Format:</b>	<b>State:</b> Liquid purified IgG <b>Purification:</b> Affinity chromatography on Protein G <b>Buffer System:</b> Phosphate buffered saline pH7.4 containing 0.09% Sodium Azide, 1% Bovine Serum Albumin <b>Label:</b> FITC – Fluorescein Isothiocyanate Isomer 1
<b>Applications:</b>	Flow Cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
<b>Specificity:</b>	This antibody recognises CD86 (B7-2). The PO3 clone has been reported to block some co-stimulatory functions of CD86. <b>Species:</b> Mouse. Other species not tested.
<b>Storage:</b>	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

**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)

**Caution:** (A full Health and Safety assessment is available upon request). This product contains Sodium Azide: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.

**General Readings:**

1. 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.
2. 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.
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.

---

**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)