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# Monoclonal Antibody to CD86 - FITC

Alternate names: Activation B7-2 antigen, B7.2, B70, BU63, CD28LG2, CTLA-4 counter-receptor B7.2, FUN-1, T-

lymphocyte activation antigen CD86

Catalog No.: AM08053FC-N

Quantity: 0.5 mg
Concentration: 0.5 mg/ml

Background: CD86 (also known as B7-2) is a type I transmembrane glycoprotein and a member of the

immunoglobulin superfamily of cell surface receptors. It is expressed at high levels on resting peripheral monocytes and dendritic cells and at very low density on resting B and T lymphocytes. (Ref.1-5) CD86 expression is rapidly upregulated by B-cell specific stimuli

with peak expression at 18-42 hours after stimulation. (Ref.1,5) CD86, along with CD80/B7-1, is an important accessory molecule in T cell costimulation via its interaction

with CD28 and CD152/CTLA-4. Since CD86 has rapid kinetics of induction, it is believed to be the major CD28 ligand expressed early in the immune response. (Ref.1-9). The

monoclonal antibody GL1 blocks mixed lymphocyte reactions and stimulation of T cells by

antigen-presenting cells. (Ref.1,3,5)

 Uniprot ID:
 P42082

 NCBI:
 NP 062261

 GeneID:
 12524

Host / Isotype: Rat / IgG2a

Clone: GL1

Immunogen: LPS-activated mouse B cells. (Ref.1)
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:  $\langle \ \ | = 1 \, \mu g / 10e6 \, \text{cells.}$  (Ref.1-7)

Other applications not tested. Optimal dilutions are dependent on conditions and should

be determined by the user.

Specificity: This antibody recognises CD86, the B7-2 co-stimulatory molecule and a ligand for CD28

and CD152/CTLA-4. **Species:** Mouse.

Other species not tested.

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.

Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com



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### **General Readings:**

- 1. Hathcock, K., G. Laszlo, C. Pucello, O. Linsley, and R.J. Hodes. 1994. J. Exp. Med. 180:631.
- 2. Freeman, G.J., F. Borriello, R.J. Hodes, H. Reiser, K.S. Hathcock, G. Laszlo, A.J. McKnight,
- J. Kim, L. Du, D.B. Lombard, G.S. Gray, L.M. Nadler,
- and A.H. Sharpe. 1993. Science 262:907.
- 3. Inaba, K. M. Witmer-Pack, M. Inaba, K.S. Hathcock, H. Sakuta, et al. 1994. J. Exp. Med. 180:1849.
- 4. Larsen, C.P., S.C. Ritchie, R. Hendrix, P.S. Linsley, K.S. Hathcock, R.J. Hodes, R.P. Lowry, and T.C. Pearson. 1994. J. Immunol. 152:5208.
- 5. Hathcock, K.S., G. Laszlo, C. Pucillo, P. Linsley, and R.J. Hodes. 1994. J. Exp. Med. 180:631.
- 6. Laszlo, G., K.S. Hathcock, H.B. Dickler, and R.J. Hodes. 1993. J. Immunol. 150:5252.
- 7. Hathcock, K., G. Laszlo, H. Dickler, J. Bradshaw, P. Linsley, and R Hodes. 1993. Science 262:905.
- 8. Thompson, C.B. 1995. Cell 978:982.
- 9. June, C.H., J.A. Bluestone, L.M. Nadler, and C.B. Thompson. 1994. Immuol. Today 15:321. 10. Han, S. et. al. 1995. J. Immunol. 155:556.

#### **Pictures:**

Immunofluorescent Staining: BALB/c spleen cells were activated by incubation for 72 hours with LPS. The cells were then harvested and stained with Rat anti-Mouse CD86-FITC. A wide gate was set to include small, medium and large cells, following which the cells were analyzed on a FACScan(TM) flow cytometer (BDIS, San Jose, CA). Amount Used:  $\langle \cdot \rangle = 1$  µg/10e6 cells.

