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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.: AM08084FC-N

Quantity: 0.5 mg

Concentration: 0.5 mg/ml

Background: CD86, also known as B72, 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. CD86 expression is rapidly upregulated by B cell specific stimuli with peak expression at 18 to 42 hours after stimulation. CD86, along with CD80/B71, is an important accessory molecule in T cell costimulation via its interaction with CD28 and CD152/CTLA4. Since CD86 has rapid kinetics of induction, it is believed to be the major CD28 ligand expressed early in the immune response. It is also found on malignant Hodgkin and Reed Sternberg (HRS) cells in Hodgkin's disease. CD86 interacts with HHV8 (KSHV) MIR2 protein.

Uniprot ID: P42082

NCBI: NP_062261

GeneID: 12524

Host / Isotype: Rat / IgG2b

Clone: 2D10

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.
Identification and enumeration of CD86+ cells. (Ref.1,3,4,9)
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 costimulatory molecule and a ligand for CD28 and CD152.
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.

General Readings:

1. Hathcock, K., G. Laszlo, C. Pucello, O. Linsley, anmd 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. Laszlo, G., K.S. Hathcock, H.B. Dickler, and R.J. Hodes. 1993. J. Immunol. 150:5252.
4. Hathcock, K., G. Laszlo, H. Dickler, J. Bradshaw, P. Linsley, and R Hodes. 1993. Science 262:905.
5. Thompson, C.B. 1995. Cell 978:979.
6. June, C.H., J.A. Bluestone, L.M. Nadler, and C.B. Thompson. 1994. Immuol. Today 15:321.
7. Han, S. et al. 1995. J. Immunol. 155:556.
8. Inaba, K. et al. 1994. J. Exp. Med. 180:1849.
9. Larsen, C.P., et al. 1994. J. Immunol. 152:5208.

Pictures:

Immunofluorescent Staining: BALB/c spleen cells were activated by incubation for 72 hours with LPS. The cells were then harvested and stained with 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: ‹ / = 1 µg/10e6 cells.