



Category: Monoclonal Antibodies **Cat. #** mab-SF-C044 **Product Name:** mouse CD86

Description:

Monoclonal rat anti-mouse CD86. The GL1 monoclonal antibody reacts with mouse CD86, an ~80 kDa surface receptor also known as B7-2. CD86 & CD80 are members of the B7 family of costimulatory molecules. CD86 is expressed at low level on B cells, macrophages, and dendritic cells and is upregulated on B cells through a variety of surface stimuli including the BCR complex, CD40 and some cytokine receptors. CD86 is also expressed by activated mouse T cells and thioglycolate-elicited peritoneal cells. In addition to CD80 (B7-1), CD86 is a counter-receptor for the T cell surface molecules CD28 and CD152 (CTLA-4). This interaction plays a critical role in T-B crosstalk, T cell costimulation, autoantibody production and Th2-mediated Ig production.

Immunogen:

Mouse (CBA/Ca) LPS-activated splenic B Cells

Application:

Flow cytometry, IHC(frozen)

Species Reactivity:

Mouse. Others not tested.

Presentation:

50 mM Sodium Borate, 150 mM Sodium Chloride, 20% Glycerol and 0.05% Sodium azide, pH 8.0.

Aliquoting Instructions:

Do not dilute the entire reconstituted solution at once. Withdraw aliquots as needed with a micropipette and keep concentrated stock at 4°C. Dilute according to the particular application being used. In general, the 0.05M borate pH 8.0 containing 0.15M sodium chloride, 0.02% sodium azide, is a good diluent to use with most antibodies.

Specificity:

This antibody recognizes mouse CD86 (B7-2), 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 and 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.

Storage:

Store at 2~8°C for short term, freeze under -20°C for long term storage.

Size: 0.2 mg

Clone: GL-1

Isotype: IgG2a

Host: Rat

Form: Purified

Concentration: 0.5 mg/ml

Units on Hand: YES

References:

1. Chen, Y. Q., et al., Allergy 61(1): 15-26, 2006.
2. Rau, F. C., et al., J. Immunol. 183(12): 7661-7671, 2009,
3. Dai, Z. S., et al., Int. J. Hematol. 89(5): 656-663, 2009.

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