



Category: Monoclonal Antibodies **Cat. #** mab-SF-C062 **Product Name:** mouse CTLA-4 (CD152)

Description:

Monoclonal hamster anti-mouse CTLA4(CD152). CD152 is also known as the cytotoxic T lymphocyte antigen-4 (CTLA-4). CTLA-4, a protein with structural similarities to CD28, is expressed on activated T cells at low level and binds the B7 family members, CD80 (B7-1) and CD86 (B7-2), with higher affinity than CD28 does. CTLA-4 and CD28 appear to deliver opposing signals to T cells: while CD28 is a potent costimulator, CTLA-4 restricts the progression of T cells to an activated state by inhibiting IL-2 secretion and cellular proliferation. The cytoplasmic portion of CTLA-4 contains ER retention motifs, resulting in a large proportion of newly synthesized CTLA-4 in response to TCR signaling to be localized intracellularly. Furthermore, due to the intracellular localization of a large portion of CTLA-4, for complete detection it may be necessary to assess intracellular expression, in addition to surface expression of CTLA-4.

Immunogen:

Mouse CTLA-4 IgG2a Fusion

Application:

Flow cytometry, IHC

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 reacts with CD152 (CTLA-4), which is expressed on activated T lymphocytes 2-3 days after stimulation through T cell receptor. This hamster mAb to a mouse leukocyte antigen does not cross-react with rat leukocytes.

Storage:

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

Size: 0.2 mg

Clone: UC10-4F10-11

Isotype: IgG

Host: Hamster

Form: Purified

Concentration: 0.5 mg/ml

Units on Hand: YES

References:

1. June, C. H., et al., Immunol. Today 15: 231-331, 1994.
2. Krummel, M. F. and Allison, J. P., J. Exp. Med. 182(2): 459-465, 1995.
3. Walunas, T. L., et al., Immunity 1(5): 405-413, 1994.

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