



Category: Monoclonal Antibodies	Cat. # mab-SF-C052	Product Name: mouse CD28
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Description:

Monoclonal hamster anti-mouse CD28. The 37.51 monoclonal antibody reacts with the mouse CD28 molecule, a 45 kDa homodimer expressed by thymocytes, mature T cells and NK cells. CD28 is a ligand for CD80 (B7-1) and CD86 (B7-2) and is a potent costimulator of T cells. Signaling through CD28 augments IL-2 and IL-2 receptor expression as well as cytotoxicity of CD3-activated T cells.

Immunogen:

C57BL/6 mouse T-cell lymphoma EL-4

Application:

IHC, Flow cytometry. ELISA, WB

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 detects mouse CD28 in direct ELISAs and Western blots. Other application include immunoprecipitation, *in vitro* costimulation of T and NK cells, *in vitro* blocking of allogeneic mixed leukocyte response and inhibition of MHC-unrestricted CTL cytotoxicity.

Storage:

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

Size: 0.2 mg

Clone: 37.51

Isotype: Syrian Hamster IgG

Host: Syrian Hamster

Form: Purified

Concentration: 0.5 mg/ml

Units on Hand: YES

References:

1. Nandi, D., et al., J. Immunol. 152(7): 3361-3369, 1994.
2. Gross, J. A., et al., J. Immunol. 149(2): 380-388, 1992.
3. Harding, F. A., et al., Nature 356(6370): 607-609, 1992.
4. Cibotti R, et al. 1997. Immunity 6:245.
5. Masten BJ, et al. 1997. Am. J. Respir. Cell Mol. Biol. 16:335.
6. Nishio M, et al. 1996. J. Immunol. 157:4347.
7. Zhang N and He Y-W, 2005. J. Exp. Med. 202:395.

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