



Category: Monoclonal Antibodies **Cat. #** mab-SF-C003 **Product Name:** mouse CD40

Description:

Monoclonal rat anti-mouse CD40. CD40 is a 48 kD type I transmembrane glycoprotein also known as Bp50. It is a member of the tumor necrosis factor receptor (TNFR) superfamily and is expressed on B cells, basal epithelial cells, macrophages, follicular dendritic cells, endothelial cells, and a subset of CD34+ hematopoietic progenitors. CD40 regulates B cell development/maturation, Ig isotype switching and, in combination with other signals such as IL-4, protects B cells from surface Ig-induced apoptosis and promotes proliferation. Interaction of CD40 with its ligand CD154(gp39), which is expressed on activated T cells, is important in costimulation and immune regulation.

Immunogen:

Recombinant mouse CD40 protein.

Application:

IHC, Flow cytometry

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 the mouse CD40 antigen, a 40–50 kDa glycoprotein and member of the tumor necrosis factor receptor (TNFR) family. The antibody is suitable for the identification and enumeration of mouse CD40⁺ cells by flow cytometry and fluorescence microscopy. For *in vivo* or *in vitro* functional assays or for blocking of the CD40/CD154 interaction use the pure - functional grade antibody.

Storage:

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

Size: 0.2 mg

Clone: FGK4.5

Isotype: Rat IgG2a

Host: Rat

Form: Purified

Concentration: 0.5 mg/ml

Units on Hand: YES

References:

1. Hasbold, J., et al., Eur. J. Immunol. 24:1835, 1994.
2. Bourgeois, C., et al., Science 297: 2060, 2002.
3. Grewal, I. S., et al., 1998. Annu. Rev. Immunol. 16:111, 1998.
4. Caux C, et al., J Exp Med 1994; 180:1841–7.
5. Ingulli E, et al., J Exp Med 1997; 185:2133–41.

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