

CD40 antibody [MAB89]

Cat. No. GTX19684

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Applications	FCM, Activation
Reactivity	Human

Package
100 µg

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
FCM	2 µg
Activation	10 ng/ml

Note : 5x10⁵ platelets/test

Not tested in other applications.

Calculated MW	31 kDa. (Note)
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Product Note

CD40 is a 49 kDa type I integral membrane protein of the NGF receptor family. CD40 is found on normal and neoplastic B cells. (1) It is a pan-B marker, absent only from terminally differentiated plasma cells. CD40 is predicted to function in the process of B cell selection in the germinal center. Studies demonstrated that the antibody induces strong homotypic adhesions in resting B cells and, together with Interleukin-4 (IL-4) maintains the cell cycle of B blasts and promotes the switch to IgE secretion. (1,2) Purified B cells cultured in the CD40 system in the presence of IL-10 differentiate into plasma cells and secrete large amounts of immunoglobulins. (3) The ligand for CD40 is a membrane glycoprotein on activated T cells that induces B cell proliferation and immunoglobulin secretion. (4) This clone acts in synergy with IL-4 to induce the increase of B-cell volume and the proliferation of anti IgM antibody-co-stimulated or pre-activated B cells. (5)

Properties

Form	Liquid
Buffer	PBS, 1mg/ml BSA
Storage	Store as concentrated solution. Centrifuge briefly prior to opening vial. For short-term storage (1-2 weeks), store at 4°C. For long-term storage, aliquot and store at -20°C or below. Avoid multiple freeze-thaw cycles.
Concentration	0.20 mg/ml (Please refer to the vial label for the specific concentration.)
Immunogen	Anti-mu activated tonsillar human B cells.
Purification	Purified IgG
Conjugation	Unconjugated



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Note

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