

Anti-Human CD40 SAFIRE Purified

Catalogue Number : 02511-25

RUO: For Research Use Only. Not for use in diagnostic procedures.

Product Information

Clone: 5C3

Format/Conjugate: SAFIRE Purified

Concentration: 1 mg/mL

Reactivity: Human

Laser: Not Applicable

Peak Emission: Not Applicable

Peak Excitation: Not Applicable

Filter: Not Applicable

Brightness (1=dim,5=brightest): Not Applicable

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, pH7.2.

Storage: Product should be kept at 2-8°C.

Applications: FC, FA

Description

The 5C3 monoclonal antibody specifically reacts with human CD40, a 48kDA type I glycoprotein. CD40 is part of the TNFR family and expressed on a subset of T cells, B cells, dendritic cells, and macrophages. It has been shown to be involved in the protection of B cells from apoptosis, B cell differentiation, co-stimulation, and isotype class-switching. The 5C3 antibody partially blocks the binding of CD40L (CD154). In the presence of IL-4 or PMA, the 5C3 antibody promotes B cell proliferation.

Preparation & Storage

The product should be stored undiluted at 4°C. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography. The endotoxin level is determined by LAL test to be less than 0.01 EU/μg of the protein.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. It is recommended that the reagent be titrated for optimal performance for each application.

References

- Schlossman, S. F. (1995).;Leucocyte typing V: White cell differentiation antigens: Proceedings of the Fifth International Workshop and Conference, Held in Boston, USA 3-7 November, 1993. Oxford University Press.
- Barclay, A. N., Birkeland, M. L., Brown, M. H., Beyers, A. D., David, S. J., Somoza, C., Williams, A. F. The Leukocyte Antigen Facts Book. 1993.Academic Prss, London.
- Challa, A., Pound, J. D., Gordon, J., Armitage, R. J. (1999). Epitopedependent synergism and antagonism between CD40 antibodies and soluble CD40 ligand for the regulation of CD23 expression and IgE synthesis in human B cells.;Allergy.;54(6), 576-583.