

Anti-Human CD40 FITC

Catalogue Number : 02511-50

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

Product Information

Clone: 5C3

Format/Conjugate: FITC

Concentration: 5 μ L (0.5 μ g)/test

Reactivity: Human

Laser: Blue (488nm)

Peak Emission: 520nm

Peak Excitation: 494nm

Filter: 530/30

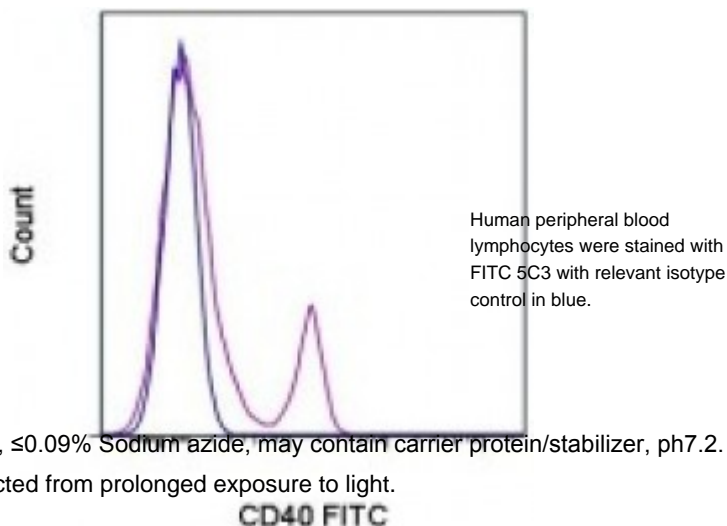
Brightness (1=dim,5=brightest): 3

Isotype: Mouse IgG1, kappa

Formulation: Phosphate-buffered aqueous solution, $\leq 0.09\%$ Sodium azide, may contain carrier protein/stabilizer, pH7.2.

Storage: Product should be kept at 2-8°C and protected from prolonged exposure to light.

Applications: FC



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 and should be protected from prolonged exposure to light. Do not freeze. The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.

Application Notes

The antibody has been analyzed for quality through the flow cytometric analysis of the relevant cell type. The antibody can be used at less than or equal to 5 μ L per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 μ L.

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 Press, London.
- Challa, A., Pound, J. D., Gordon, J., Armitage, R. J. (1999). Epitope-dependent 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.