

## Anti-Human CD40 PE-Cyanine7

Catalog Number :02511-77

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

### Product Information

**Clone:** 5C3

**Format/Conjugate:** PE-Cyanine7

**Concentration:** 5 uL (0.125 ug)/test

**Reactivity:** Human

**Laser:** Blue (488nm)

**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, ≤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 µL per test. A test is the amount of antibody required to stain a cell sample in the final volume of 100 µL.

### 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). 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.