

CD40 Mouse Anti-Human Monoclonal Antibody (clone 5C3) PE Conjugate

Store at 2°C to 8°C

Pub. No. MAN0008427 Rev. 1.00

Catalog No.	Form	Amount	Excitation	Peak Emission
A16206	PE	25 tests (5 µL/test, 0.003 µg/µL)	496 nm	578 nm

Clone	5C3
Host/Class	Mouse IgG _{1κ}
Description	The CD40 Mouse Anti-Human Monoclonal Antibody (mAb) recognizes human CD40, a 45–50 kDa type I transmembrane glycoprotein belonging to the TNFR family. CD40 is involved in B cell development and maturation, protecting B cells from apoptosis, and promoting proliferation. It is also important in T cell-B cell crosstalk and plays a role in co-stimulation and immune regulation. It is expressed on B lymphocytes, follicular dendritic cells, thymic epithelium, and a subset of peripheral T cells. The CD40 Mouse Anti-Human mAb has been used for activation of B cells in <i>in vitro</i> functional assays.
Alternate Names	TNFRSF5
Reactivity	Human CD40
Applications*	FC (normal human peripheral blood cells)
Storage Buffer	The reagent is provided in aqueous buffer with 0.09% sodium azide, and may contain carrier protein/stabilizer. CAUTION! Sodium azide is extremely toxic and may react with lead and copper plumbing to form highly explosive metal azides. Properly dispose of solutions containing sodium azide. Read the Safety Data Sheet (SDS) and follow the handling instructions. Wear appropriate protective eyewear, clothing, and gloves. SDSs are available at www.lifetechnologies.com/support .
Storage	Store reagents in the dark at 2° to 8°C. Do not freeze. If the reagent is being diluted, it is recommended that only the quantity to be used within one week be diluted. Avoid prolonged light exposure with fluorochrome-conjugated antibodies. Use dim light during handling, incubation with cells, and prior to analysis.
Stability	When stored as instructed, expires one year from date of receipt unless otherwise indicated on Certificate of Analysis.
Lot Number	See product label.
References	<ol style="list-style-type: none"> 1. Pound JD, Challa A, Holder MJ, Armitage RJ, Dower SK, Fanslow WC, Kikutani H, Paulie S, Gregory CD, Gordon J. Minimal cross-linking and epitope requirements for CD40-dependent suppression of apoptosis contrast with those for promotion of the cell cycle and homotypic adhesions in human B cells. <i>Int Immunol</i>. 1999. Jan;11(1):11-20. 2. Schlossman, S., L. Bloumsell, et al. eds. Leucocyte Typing V: White Cell Differentiation Antigens. Oxford University Press. New York. 1995.

* Because conditions may vary, it is recommended that each investigator determine the optimal amount of antibody to be used for each application.








FC = flow cytometry; FUNC = functional assay; ICC = immunocytochemistry; IHC(F) = immunohistochemistry (frozen sample); IHC(P) = immunohistochemistry (paraffin embedded sample); IP = immunoprecipitation; RIA = radioimmunoassay; WB = western blot

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

Manufacturing site: 7335 Executive Way | Frederick, MD 21704 | Toll Free in USA 800.955.6288

Explanation of Symbols

The symbols present on the product label are explained below:

Symbol	Description	Symbol	Description	Symbol	Description
	Manufacturer		Catalog number		Batch code
	Use by		Temperature limitation		
	Consult instructions for use		Caution, consult accompanying documents		

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