

### 43-1004: Monoclonal Antibody to Human CD40 NALE™ Purified (Clone: 5C3)

<b>Clonality :</b>	Monoclonal
<b>Clone Name :</b>	5C3
<b>Application :</b>	FACS
<b>Reactivity :</b>	Human
<b>Gene :</b>	CD40
<b>Gene ID :</b>	958
<b>Uniprot ID :</b>	P25942
<b>Alternative Name :</b>	B-cell surface antigen CD40, Bp50, CD40L receptor, CDw40, TNFRSF5
<b>Isotype :</b>	Mouse IgG1, kappa

#### Description

The 5C3 monoclonal antibody specifically reacts with human CD40, a 48 kDa 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.

#### Product Info

<b>Amount :</b>	50 ug / 500 µg
<b>Content :</b>	1 mg/ml in Phosphate-buffered aqueous solution, pH7.2.
<b>Storage condition :</b>	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 Note

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.