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**Product name:** Purified Anti-Human CD40 Monoclonal Antibody

**Catalog:** DL20556F

**Synonyms:** Tumor necrosis factor receptor superfamily member 5, Cd40, B-cell surface antigen CD40, Bp50, CD40L receptor, CD40, Tnfrsf5

**Background:** CD40 is a 48 kD type I glycoprotein also known as BP50. It is a member of the TNFR superfamily primarily expressed on B cells, macrophages, follicular dendritic cells, endothelial cells, fibroblasts, and at low levels on plasma cells. CD40 has been reported to be involved in B cell differentiation, costimulation, isotype class-switching, and protection of B cells from apoptosis. Additionally, CD40 is important for T cell-B cell interactions. The ligand of CD40 is

CD154 (CD40 ligand). The 5C3 antibody has been reported to promote B cell proliferation in the presence of anti-IgM, IL-4 or PMA, partially blocking CD40 binding to CD40L, and B cells rescue from apoptosis.

**Form:** Liquid

**Isotype:** Mouse IgG2a,  $\kappa$

**Size:** 25  $\mu$ g/100  $\mu$ g

**Host:** Mouse

**Reactivity:** Human

**Application:** FCM

**Concentration:** 0.5 mg/mL

**Conjugation:** Unconjugated

**SwissProt:** P25942

**Buffer:** PBS with 0.05% Proclin300

### Recommended Use:

Each lot of this antibody is quality control tested by immunofluorescent staining with flow cytometric analysis. For flow cytometric staining, the suggested use of this reagent is  $\leq 0.5 \mu$ g per  $10^6$  cells in 100  $\mu$ l volume or 100  $\mu$ l of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.

**Storage:**

Keep as concentrated solution.

Store at 2~8°C. Do not freeze.

This product is guaranteed up to one year from purchase.