

APC/Cyanine7 anti-mouse CD40

Catalog # / Size: 1223185 / 25 µg

Clone: 3/23

Isotype: Rat IgG2a, κ

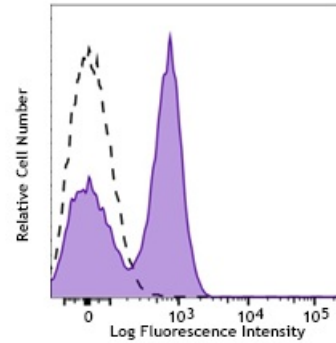
Immunogen: Recombinant mouse CD40 protein

Reactivity: Mouse

Preparation: The antibody was purified by affinity chromatography and conjugated with APC/Cyanine7 under optimal conditions.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide

Concentration: 0.2 mg/mL



C57BL/6 mouse splenocytes were stained with CD40 (clone 3/23) APC/Cyanine7 (filled histogram) or rat IgG2a, κ APC/Cyanine7 isotype control (open histogram).

Applications:

Applications: Flow Cytometry

Recommended Usage: 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 ≤ 0.5 µg per million cells in 100 µL volume. It is recommended that the reagent be titrated for optimal performance for each application.

- Application References:**
1. Hasbold J, et al. 1994. *Eur. J. Immunol.* 24:1835.
 2. Bourgeois C, et al. 2002. *Science* 297:2060.

Description: CD40 is a 48 kD type I transmembrane glycoprotein also known as Bp50. It is a member of the tumor necrosis factor receptor (TNFR) superfamily and is expressed on B cells, basal epithelial cells, macrophages, follicular dendritic cells, endothelial cells, and a subset of CD34⁺ hematopoietic progenitors. CD40 regulates B cell development/maturation, Ig isotype switching and, in combination with other signals such as IL-4, protects B cells from surface Ig-induced apoptosis and promotes proliferation. Interaction of CD40 with its ligand CD154 (gp39), which is expressed on activated T cells, is important in costimulation and immune regulation.

- Antigen References:**
1. Grewal IS, et al. 1998. *Annu Rev Immunol* 16:111.