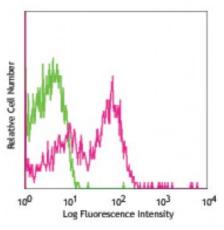
Product Data Sheet

Biotin anti-mouse CD40

Catalog # / Size:	1223030 / 500 µg 1223025 / 50 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 biotin under optimal conditions. The solution is free of unconjugated biotin.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
Concentration:	0.5



BALB/c splenocytes stained with biotinylated 3/23, followed by Sav-PE

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 \leq 1.0 microg per million cells in 100 microL volume. It is recommended that the reagent be titrated for optimal performance for each application.
Application Notes:	The LEAF TM purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 124604). For highly sensitive assays, we recommend Ultra-LEAF TM purified antibody (Cat. No. 124628) with a lower endotoxin limit than standard LEAF TM purified antibodies (Endotoxin <0.01 EU/microg).
Application References:	1. Hasbold J, <i>et al.</i> 1994. <i>Eur. J. Immunol.</i> 24:1835. 2. Bourgeois C, <i>et al.</i> 2002. <i>Science</i> 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, <i>et al.</i> 1998. <i>Annu Rev Immunol</i> 16:111.

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