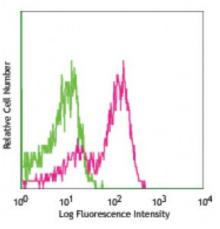
## **Product Data Sheet**

## Alexa Fluor® 647 anti-mouse CD40

Catalog # / Size:	1223065 / 25 μg 1223070 / 100 μg
Clone:	3/23
Isotype:	Rat IgG2a, к
Immunogen:	Recombinant mouse CD40 protein
<b>Reactivity:</b>	Mouse
Preparation:	The antibody was purified by affinity chromatography, and conjugated with Alexa Fluor® 647 under optimal conditions.
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide.
<b>Concentration:</b>	0.5



BALB/c splenocytes stained with 3/23 Alexa Fluor® 647

## **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.
	$^{*}$ Alexa Fluor $^{ m I\!R}$ 647 has a maximum emission of 668 nm when it is excited at 633 nm / 635 nm.
Application Notes:	The LEAF <sup>TM</sup> 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 <sup>TM</sup> purified antibody (Cat. No. 124628) with a lower endotoxin limit than standard LEAF <sup>TM</sup> 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 <sup>+</sup> 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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