Product Data Sheet

Brilliant Violet 421[™] anti-human CD40

Catalog # / Size:	2271660 / 100 tests 2271655 / 25 tests	Là
Clone:	5C3	M.
Isotype:	Mouse IgG1, к	ā / //
Reactivity:	Human	
Preparation:	The antibody was purified by affinity chromatography and conjugated with Brilliant Violet 421 [™] under optimal conditions. The solution is free of unconjugated Brilliant Violet 421 [™] and unconjugated antibody.	Belative Cell Number
Formulation:	Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).	Log Fluorescence Intensity Human peripheral blood lymphocytes were stained with
Workshop Number:	V CD40.4	CD40 (clone 5C3) Brilliant Violet 421™ (filled histogram) or mouse
Concentration:	Lot-specific	lgG1, κ Brilliant Violet 421™ 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 ≤ 5 microL per million cells or 5 microL per 100 microL of whole blood. It is recommended that the reagent be titrated for optimal performance for each application.
	Brilliant Violet 421 [™] excites at 405 nm and emits at 421 nm. The standard bandpass filter 450/50 nm is recommended for detection. Brilliant Violet 421 [™] is a trademark of Sirigen Group Ltd.
	This product is subject to proprietary rights of Sirigen Inc. and is made and sold under license from Sirigen Inc. The purchase of this product conveys to the buyer a non-transferable right to use the purchased product for research purposes only. This product may not be resold or incorporated in any manner into another product for resale. Any use for therapeutics or diagnostics is strictly prohibited. This product is covered by U.S. Patent(s), pending patent applications and foreign equivalents.
Application Notes:	Additional reported applications (for the relevant formats) include: costimulation of B cell proliferation1, partial inhibition of CD40 binding to CD40L3, and B cell rescue from apoptosis1. The LEAF [™] purified antibody (Endotoxin <0.1 EU/microg, Azide-Free, 0.2 µm filtered) is recommended for functional assays. 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.
Application References:	 Schlossman SF, <i>et al.</i> 1995. ed. Leukocyte Typing V:White Cell Differentiation Antigens. New York:Oxford University Press. Yoshino N, <i>et al.</i> 2000. <i>Exp. Anim. (Tokyo)</i> 49:97. (FC) Pound JD, <i>et al.</i> 1999. <i>Int. Immunol.</i> 11:11. (Block)

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Description:	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).
Antigen	1. Banchereau J, <i>et al.</i> 1994. <i>Annu. Rev. Immunol.</i> 12:881.

References: 2. Foy T, et al. 1996. Annu. Rev. Immunol. 14:591.