SONY

Product Data Sheet

Brilliant Violet 421™ anti-mouse CD24

Catalog # / Size: 1109125 / 125 µl
1109130 / 50 µg

Clone: M1/69

Isotype: Rat IgG2b, κ

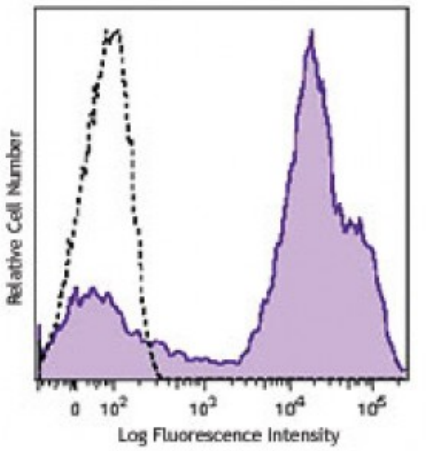
Immunogen: C57BL/10 mouse splenic T cells and concanavalin A-activated splenocytes

Reactivity: Mouse

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.

Formulation: Phosphate-buffered solution, pH 7.2, containing 0.09% sodium azide and BSA (origin USA).

Concentration: microg sizes: 0.2 mg/ml
microL sizes: lot-specific



C57BL/6 splenocytes were stained with CD24 (clone M1/69) Brilliant Violet 421™ (filled histogram) or with rat IgG2b 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 immunofluorescent staining using the microg size, the suggested use of this reagent is ≤0.25 microg per million cells in 100 microL volume. For immunofluorescent staining using the microL size, 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.

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Application Notes: Additional reported applications (for the relevant formats) include: Western blotting1, *in vitro* induction of thymocyte maturation2, complement-mediated cytotoxicity3, and immunohistochemistry of acetone-fixed frozen sections4, formalin-fixed paraffin-embedded sections5 and zinc-fixed paraffin-embedded sections[10]. The LEAF™ purified antibody (Endotoxin <0.1 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 101810).

Application References:

1. Springer T, *et al.* 1978. *Eur. J. Immunol.* 8:539. (WB)
2. Crowley M, *et al.* 1989. *Cell. Immunol.* 118:108. (FA)
3. Veillette A, *et al.* 1989. *J. Exp. Med.* 170:1671. (FA)

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4. Pandelakis A Flavell RA 1999 *JEM* 189:855 (FC, IHC)
5. Liu JQ, *et al.* 2007 *J. Immunol.* 178:6227. (FC, IF)
6. Chappaz S, *et al.* 2007. *Blood* doi:10.1182/blood-2007-02-074245. (FC) PubMed
7. Rucci F, *et al.* 2010. *Proc Natl Acad Sci USA.* 107:3024. (FC) PubMed
8. Teague TK, *et al.* 2010. *Int Immunol.* 22:387. (FC) PubMed
9. Gracz AD, *et al.* 2010. *Am J. Physiol Gastrointest Liver Physiol.* 298:590. (FC) PubMed
10. Chen CY, *et al.* 2008. *Endocrinology.* 10:1210. (FC, IHC) PubMed
11. Qui Q, *et al.* 2010. *J. Immunol.* 184:1681. (FC) PubMed
12. Cherukuri A, *et al.* 2014. *J Am Soc Nephrol.* 7:1575. PubMed

Description: CD24 is a 35-45 kD protein also known as Heat Stable Antigen (HSA), Ly-52, or Nectadrin. It is a GPI-linked sialoglycoprotein expressed on lymphocytes, granulocytes, epithelial cells, thymocytes, monocytes, erythrocytes, and dendritic cells. CD24 expression varies during T and B cell differentiation and is a useful marker for delineating various lymphocyte developmental stages. CD24 serves as an adhesion or costimulatory molecule involved in T and B lymphocyte activation and differentiation by homophilic binding or binding to CD62P.

Antigen References:

1. Barclay A, *et al.* 1997. The Leukocyte Antigen FactsBook Academic Press.
2. Aigner S, *et al.* 1997. *Blood* 89:3385.
3. Hough MR, *et al.* 1996. *J. Immunol.* 156:479.
4. Liu Y, *et al.*