SONY

Product Data Sheet

APC/Cyanine7 anti-mouse CD24

Catalog # / Size: 1109250 / 100 µg
1109245 / 25 µg

Clone: M1/69

Isotype: Rat IgG2b, κ

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

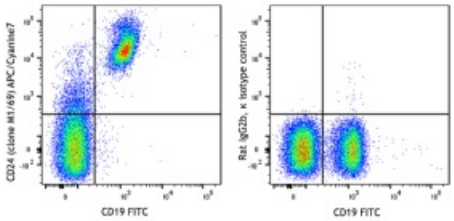
Reactivity: Mouse

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

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

Workshop Number: 750 under optimal conditions.

Concentration: 0.2



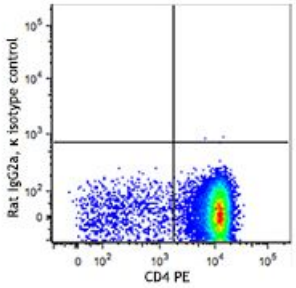
C57BL/6 splenocytes were stained with CD19 FITC and anti-mouse CD24 APC/Cyanine7 (clone M1/69) (left) or rat IgG2b, κ APC/Cyanine7 isotype control (right).

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 Notes: Additional reported applications (for the relevant formats) include: Western blotting[1], *in vitro* induction of thymocyte maturation[2], complement-mediated cytotoxicity[3], and immunohistochemistry of acetone-fixed frozen sections[4], formalin-fixed paraffin-embedded sections[5] and zinc-fixed paraffin-embedded sections[10]. The Ultra-LEAF™ purified antibody (Endotoxin < 0.01 EU/µg, Azide-Free, 0.2 µm filtered) is recommended for functional assays (Cat. No. 101845 and 101846).



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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)
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

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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.* 1992. *J. Exp. Med.* 175:437.

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