

Store at  
4°C

# CD24 (M1/69) Rat mAb (violetFluor™ 450 Conjugate)

Cell Signaling  
TECHNOLOGY®

#9705

New 08/18

Support: +1-978-867-2388 (U.S.)  
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orders@cellsignal.comEntrez-Gene ID #12484  
UniProt ID #P24807**For Research Use Only. Not For Use In Diagnostic Procedures.****Applications**  
F  
Endogenous**Species Cross-Reactivity**  
M**Isotype**  
Rat IgG2b

**Description:** This Cell Signaling Technology antibody is conjugated to violetFluor™ 450 and tested in-house for direct flow cytometric analysis in mouse cells.

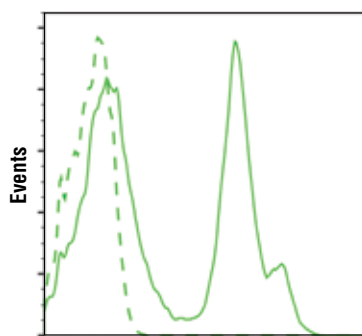
**Background:** CD24, also known as heat stable antigen HSA, is a P-selectin ligand involved in adhesion. It is a GPI-anchored glycoprotein expressed on many types of cells, including hematopoietic cells, neural cells, and epithelial cells. CD24 is widely used to delineate stages of lymphocyte development (1-3). It also binds to Siglec-10 in humans or Siglec-G in mice (4,5). CD24 is frequently used as a marker to identify and isolate cancer stem cells in various cancer types (6,7).

**Background References:**

- (1) Sammar, M. et al. (1994) *Int Immunol* 6, 1027-36.
- (2) Aigner, S. et al. (1997) *Blood* 89, 3385-95.
- (3) Fang, X. et al. (2010) *Cell Mol Immunol* 7, 100-3.
- (4) Chen, G.Y. et al. (2009) *Science* 323, 1722-5.
- (5) Toubai, T. et al. (2014) *Blood* 123, 3512-23.
- (6) Jaggupilli, A. and Elkord, E. (2012) *Clin Dev Immunol* 2012, 708036.
- (7) Yu, Z. et al. (2012) *Int J Biochem Cell Biol* 44, 2144-51.

**Specificity/Sensitivity:** CD24 (M1/69) Rat mAb (violetFluor™ 450 Conjugate) recognizes endogenous levels of total CD24 protein. This antibody detects an epitope within the extracellular domain.

**Source/Purification:** This monoclonal antibody was purified from tissue culture supernatant via affinity chromatography. The purified antibody was conjugated under optimal conditions, with unreacted dye removed from the preparation.

**CD24 (M1/69) (violetFluor™ 450 Conjugate)**

Flow cytometric analysis of live mouse splenocytes using CD24 (M1/69) Rat mAb (violetFluor™ 450 Conjugate) (solid line) compared to concentration-matched Rat (LTF-2) mAb IgG2b Isotype Control (violetFluor™ 450 Conjugate) #52572 (dashed line).

**Storage:** Supplied in 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% Na<sub>2</sub>S<sub>2</sub>O<sub>3</sub>, 0.1% gelatin, pH7.2. This product is stable for 6 months when stored at 4°C. *Do not aliquot the antibody.* Protect from light. Do not freeze.

**Recommended Antibody Dilutions:**

Flow Cytometry 1:40

**For product specific protocols and a complete listing of recommended companion products please see the product web page at [www.cellsignal.com](http://www.cellsignal.com).**

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**Applications:** W—Western IP—Immunoprecipitation IHC—Immunohistochemistry ChIP—Chromatin Immunoprecipitation IF—Immunofluorescence F—Flow cytometry E-P—ELISA-Peptide **Species Cross-Reactivity:** H—human M—mouse R—rat Hm—hamster Mk—monkey Mi—mink C—chicken Dm—D. melanogaster X—Xenopus Z—zebrafish B—bovine Dg—dog Pg—pig Sc—S. cerevisiae Ce—C. elegans Hr—Horse All—all species expected **Species** enclosed in parentheses are predicted to react based on 100% homology.