

CD24 (M1/69) Rat mAb (PE Conjugate)

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Applications:	Reactivity:	Sensitivity:	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
FC-FP, FC-L	M	Endogenous	Rat IgG2b kappa	#P24807	12484

Product Usage Information

For optimal flow cytometry results, we recommend 0.03 µg of antibody per test.

Application

Flow Cytometry (Fixed/Permeabilized)
Flow Cytometry (Live)

Dilution

1:660
1:660

Storage

Supplied in 10 mM NaH₂PO₄, 150 mM NaCl, 0.09% NaN₃, 0.1% gelatin, pH 7.2. This product is stable for 12 months when stored at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze.

Specificity/Sensitivity

CD24 (M1/69) Rat mAb (PE 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.

Description

This Cell Signaling Technology antibody is conjugated to PE 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.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Applications Key

FC-FP: Flow Cytometry (Fixed/Permeabilized) **FC-L:** Flow Cytometry (Live)

Cross-Reactivity Key

M: Mouse

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