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## CD24 (M1/69) Rat mAb (APC Conjugate)

**For Research Use Only. Not for Use in Diagnostic Procedures.**

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 0.06 µg of antibody per test.

#### Application

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

#### Dilution

1:330  
1:330

### Storage

Supplied in 10 mM NaH<sub>2</sub>PO<sub>4</sub>, 150 mM NaCl, 0.09% NaN<sub>3</sub>, 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 (APC 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 APC 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

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