**BACKGROUND**

CD24 is a GPI-linked membrane sialoglycoprotein that is expressed on pro-B, pre-B and mature B cells, and its expression is decreased after B cell activation. CD24 is also found on granulocytes and a small fraction of thymocytes and neuroblastomas, but not on plasma cells. CD24 may play a role in the regulation of B cell proliferation and differentiation. CD24 is expressed in hematological malignancies as well as in a large variety of solid tumors. A shift from apical localization to cytoplasmic staining of CD24 is a surrogate marker of stromal invasion in ovarian serous tumors of borderline malignancy. CD24 protein can be a B cell differentiation marker that is expressed on mature resting B cells and disappears upon stimulation.

**REFERENCES**


**CHROMOSOMAL LOCATION**

Genetic locus: Cd24a (mouse) mapping to 10 B2.

**SOURCE**

CD24 (HIS50) is a mouse monoclonal antibody raised against bone marrow cells of rat origin.

**PRODUCT**

Each vial contains 200 µg IgM in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD24 (HIS50) is available conjugated to either phycoerythrin (sc-33669 PE) or fluorescein (sc-33669 FITC), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM.

**APPLICATIONS**

CD24 (HIS50) is recommended for detection of CD24 of mouse and rat origin by Western Blotting (starting dilution 1:100, dilution range ), immunoprecipitation [1-2 µg per 100-500 µg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁸ cells); may cross-react with intracellular antigens in human PBMC.

Suitable for use as control antibody for CD24 siRNA (m): sc-29979, CD24 shRNA Plasmid (m): sc-29979-SH and CD24 shRNA (m) Lentiviral Particles: sc-29979-V.

Molecular Weight of CD24: 35-45 kDa.

Positive Controls: rat spleen extract: sc-2397 or rat PBL whole cell lysate.

**DATA**

**SELECT PRODUCT CITATIONS**


**STORAGE**

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

**RESEARCH USE**

For research use only, not for use in diagnostic procedures.

See CD24 (M1/69): sc-19651 for CD24 antibody conjugates, including AC, HRP, FITC, PE, and Alexa Fluor® 488, 546, 594, 647, 680 and 790.

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CD24 (HIS50) sc-33669 Western blot analysis of CD24 expression in rat spleen tissue extract (A) and rat PBL whole cell lysate (B). Note presence of differentially glycosylated forms of CD24.