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; Cd24 (rat) mapping to 20q13.

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 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 10^6 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.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.