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 (M1/69) is a rat monoclonal antibody raised against C57BL/10 mouse splenic T cells and concanavalin A-activated splenocytes.

PRODUCT

Each vial contains 200 µg IgG2b in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD24 (M1/69) is available conjugated to agarose (sc-19651 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-19651 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-19651 PE), fluorescein (sc-19651 FITC), Alexa Fluor® 488 (sc-19651 AF488), Alexa Fluor® 546 (sc-19651 AF546), Alexa Fluor® 594 (sc-19651 AF594) or Alexa Fluor® 647 (sc-19651 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FC; and to either Alexa Fluor® 800 (sc-19651 AF800) or Alexa Fluor® 790 (sc-19651 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FC.

CD24 (M1/69): sc-19651. Western blot analysis of CD24 expression in M1 (A) and CTLL-2 (B) whole cell lysates and mouse spleen tissue extract (C).

APPLICATIONS

CD24 (M1/69) is recommended for detection of CD24 of mouse origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 µg per 1 x 10⁶ cells).

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: M1 whole cell lysate: sc-364782, mouse spleen extract: sc-2391 or CTLL-2 cell lysate: sc-2242.

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.

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