

anti-human CD24

Monoclonal Antibody HI45 to CD24 (Human)

Cat-No: 21810241

100 µg in 100 µl

Clone: HI45

Specificity: The antibody HI45 recognizes a 35-45 kDa glycosyl-phosphatidylinositol (GPI) anchored glycoprotein expressed on B cells including the pre-B cells to the mature B cells but not on plasma cells. CD24 antigen is also present on mature granulocytes and on a variety of epithelial cell. It may play a role in regulation of B cell proliferation and maturation.

Isotype subclass: Mouse IgG1

Form: Purified from ascites by protein G affinity chromatography

Physical state: Liquid

Buffer/Additives/Preservative: PBS containing and 0.09 % sodium azide (pH 7.2)

Expiration date: The reagent is stable until the expiry date stated on the vial label.

Storage conditions: Store at 4 °C. For long-term storage aliquot and store at -20°C. Avoid freeze/thaw cycles.

Application: Immunohistochemistry (frozen), Flow Cytometry

Background: CD24, also known as heat-stable antigen (HSA) or nectadorin, is a small mucin-like GPI-anchored extracellular membrane glycoprotein expressed on several cell types, including B cells. When B cells are activated and induced to further maturation, however, CD24 begins to disappear. CD24 seems to act as a gate-keeper for lipid rafts, thereby regulating the activity of integrins and other proteins such as the chemokine receptor CXCR4; it is also a ligand for P-selectin. CD24 triggering induces apoptosis of B cell precursors but not in mature resting B cells, where it instead inhibits their ability to proliferate in response to activation. CD24 expression is associated with invasiveness and poorer prognosis of carcinomas and is a marker of exosomes secreted into urine and amniotic fluid.

References:

*Schlossmann, S. L. Bloumsell, W. Gilks et al. eds. 1995. Leucocyte Typing V: White Cell Differentiation Antigens. P:493, 539, 542-543 Oxford University Press, New York

Warning: Sodium azide is harmful if swallowed (R22). Keep out of reach of children (S2). Keep away from food, drink and animal feeding stuff (S13). Wear suitable protective clothing (S36). If swallowed, seek medical advice immediately and show this container or label (S46). Contact with acids liberates very toxic gas (R32). Azide compounds should be flushed with large volumes of water during disposal to avoid deposits in lead or copper plumbing where explosive conditions can develop.

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