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Monoclonal Antibody to CD24 - FITC

Alternate names:	HSA, Signal transducer CD24, Small cell lung carcinoma cluster 4 antigen, X62 heat stable antigen
Catalog No.:	AM03032FC-N
Quantity:	100 Tests
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.
Uniprot ID:	<u>P25063</u>
NCBI:	<u>9606</u>
Host / Isotype:	Mouse / IgG1
Clone:	SN3
Immunogen:	Glycoproteins purified from human NALM-1 cell line
Format:	 State: Liquid purified Ig fraction. Buffer System: Phosphate buffered saline (PBS) containing 15 mM Sodium Azide and 0.2% (w/v) high-grade protease free BSA as a stabilizing agent. Label: FITC – Conjugated with Fluorescein isothiocyanate under optimum conditions. The reagent is free of unconjugated
Applications:	Flow Cytometry (human blood cells using 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Specificity:	The antibody SN3 reacts with CD24, a 35-45 kDa heavily glycosylated cell surface antigen. CD24 is expressed by granulocytes, B lymphocytes and by some activated T cells and T cell malignancies. It is not expressed on human thymocytes. Species: Human. Other species not tested.
Storage:	Store the antibody at 2-8°C. DO NOT FREEZE! This product is photosensitive and should be protected from light. Shelf life: one year from despatch.

For research and in vitro use only. Not for diagnostic or therapeutic work. Material Safety Datasheets are available at www.acris-antibodies.com or on request.



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General Readings:

 Suzuki T, Kiyokawa N, Taguchi T, Sekino T, Katagiri YU, Fujimoto J. CD24 induces apoptosis in human B cells via the glycolipid-enriched membrane domains/rafts-mediated signaling system. J Immunol. 2001 May 1;166(9):5567-77. PubMed PMID: 11313396.
 Schabath H, Runz S, Joumaa S, Altevogt P. CD24 affects CXCR4 function in pre-B lymphocytes and breast carcinoma cells. J Cell Sci. 2006 Jan 15;119(Pt 2):314-25. Epub 2006 Jan 3. PubMed PMID: 16390867.

3. Keller S, Rupp C, Stoeck A, Runz S, Fogel M, Lugert S, et al. CD24 is a marker of exosomes secreted into urine and amniotic fluid. Kidney Int. 2007 Nov;72(9):1095-102. Epub 2007 Aug 15. PubMed PMID: 17700640.

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11. Solvason N, Kearney JF. The human fetal omentum: a site of B cell generation. J Exp Med. 1992 Feb 1;175(2):397-404. PubMed PMID: 1370683.

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