

anti-Human CD24 Antibody | anti-CD24 antibody

Anti-Hu CD24 PE-Cy7

CATALOG # AAA129278	REACTIVITY Human	APPLICATIONS Flow Cytometry, Functional Assay
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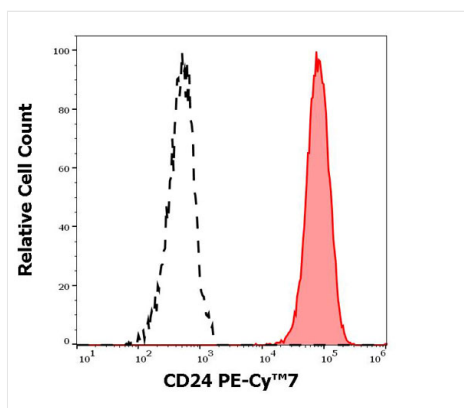
PRODUCT SYNONYMS

CD24; Anti-Hu CD24 PE-Cy7; CD24 molecule; HSA; nectadorin; SCLC4; anti-CD24 antibody

PRODUCT SPECIFICATIONS

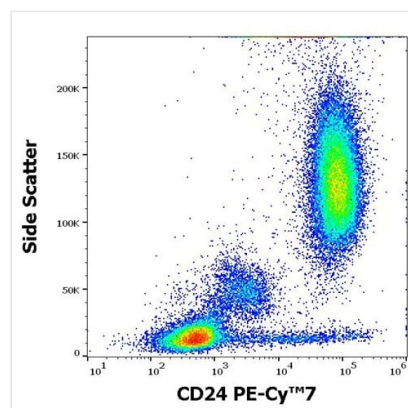
Reactivity	Human
Isotype	Mouse IgG1
Clone Number	SN3
Specificity	The antibody SN3 reacts with CD24, a 35-45 kDa heavily glycosylated cell surface antigen. CD24 is expressed by granulocytes, B lymphocytes and by some activated T cells and T cell malignancies. It is not expressed on human thymocytes.
Form/Format	PE-Cy7 Purified antibody is conjugated with activated tandem dye of R-phycoerythrin-cyanine 7 (PE-Cy7) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. Stabilizing phosphate buffer
Applicable Applications for anti-CD24 antibody	FCM/FACS (Flow Cytometry)
Immunogen	Glycoproteins purified from human NALM-1 cell line.
Preparation and Storage	Store at 2-8 degree C. Protect from prolonged exposure to light. Do not freeze.

IMAGES



FCM/FACS (Flow Cytometry)

Separation of human CD24 positive neutrophil granulocytes (red-filled) from CD24 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using anti-human CD24 (SN3) PE-Cy7 antibody (4 μ l reagent / 100 μ l of peripheral whole blood).



FCM/FACS (Flow Cytometry)

Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD24 (SN3) PE-Cy7 antibody (4 μ l reagent / 100 μ l of peripheral whole blood).

ADDITIONAL INFORMATION

Related Product Information for anti-CD24 antibody	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	*Všianská P, ?íhová L, Varmužová T, Suská R, Kryukov F, Mikulášová A, Kupská R, Penka M, Pour L, Adam Z, Hájek R: Analysis of B-cell subpopulations in monoclonal gammopathies. Clin Lymphoma Myeloma Leuk. 2015 Apr;15(4):e61-71., URL: http://www.ncbi.nlm.nih.gov/pubmed/25578543,*Maliar A, Servais C, Waks T, Chmielewski M, Lavy R, Altevogt P, Abken H, Eshhar Z: Redirected T cells that target pancreatic adenocarcinoma antigens eliminate tumors and metastases in mice. Gastroenterology. 2012 Nov;143(5):1375-1384, URL: http://www.ncbi.nlm.nih.gov/pubmed?term=maliar%20a%20servais%20c%20waks%20t,*Fukukawa T, Matsuzaki H, Haruta Y, Hara H, Seon BK: New monoclonal antibodies SN3, SN3a, and SN3b directed to sialic acid of glycoprotein on human non-T leukemia cells. Exp Hematol. 1986 Oct;14(9):850-5., URL: https://pubmed.ncbi.nlm.nih.gov/3489635/,*Barcos M, Pollard C, Fukukawa T, Seon BK: Follicular mantle zone cell subpopulations detected by monoclonal antibody SN3. Hematol Oncol. 1986 Oct-Dec;4(4):251-9., URL: https://pubmed.ncbi.nlm.nih.gov/3493967/,*Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995)., URL:,*Solvason N, Kearney JF. The human fetal omentum: a site of B cell generation. J Exp Med. 1992 Feb 1;175(2):397-404., URL: https://pubmed.ncbi.nlm.nih.gov/1370683/,*Fischer GF, Majdic O, Gadd S, Knapp W. Signal transduction in lymphocytic and myeloid cells via CD24, a new member of phosphoinositol-anchored membrane molecules. J Immunol. 1990 Jan 15;144(2):638-41., URL: https://pubmed.ncbi.nlm.nih.gov/2153173/,*Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989)., URL:,*Sutherland DR, Illingworth A, Marinov I, Ortiz F, Andreassen J, Payne D, Wallace PK, Keeney M: ICCS/ESCCA consensus guidelines to detect GPI-deficient cells in paroxysmal nocturnal hemoglobinuria (PNH) and related disorders part 2 - reagent selection and assay optimization for high-sensitivity testing. Cytometry B Clin Cytom. 2018 Jan;94(1):23-48., URL: https://www.ncbi.nlm.nih.gov/pubmed/29236353,*Runz S, Mierke CT, Joumaa S, Behrens J, Fabry B, Altevogt P: CD24 induces localization of beta1 integrin to lipid raft domains. Biochem Biophys Res Commun. 2008 Jan 4;365(1):35-41., URL: https://www.ncbi.nlm.nih.gov/pubmed/17980703?ordin,*Chou YY, Jeng YM, Lee TT, Hu FC, Kao HL, Lin WC, Lai PL, Hu RH, Yuan RH: Cytoplasmic CD24 expression is a novel prognostic factor in diffuse-type gastric adenocarcinoma. Ann Surg Oncol. 2007 Oct;14(10):2748-58., URL: https://www.ncbi.nlm.nih.gov/pubmed/17680316?ordin,*Keller S, Rupp C, Stoeck A, Runz S, Fogel M, Lugert S, Hager HD, Abdel-Bakky MS, Gutwein P, Altevogt P: CD24 is a marker of exosomes secreted into urine and amniotic fluid. Kidney Int. 2007 Nov;72(9):1095-102., URL: https://www.ncbi.nlm.nih.gov/pubmed/17700640?ordin,*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., URL: https://www.ncbi.nlm.nih.gov/pubmed/16390867?ordin,*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., URL: https://www.ncbi.nlm.nih.gov/pubmed/11313396?ordin,

NCBI AND UNIPROT INFORMATION

NCBI GI #	143811372
NCBI GeneID	100133941
UniProt Accession #	P25063; Q16257; Q53XS0
Molecular Weight	80
NCBI Official Full Name	Signal transducer CD24
NCBI Official Synonym Full Names	CD24 molecule
NCBI Official Symbol	CD24
NCBI Official Synonym Symbols	CD24A
NCBI Protein Information	signal transducer CD24; CD24 antigen (small cell lung carcinoma cluster 4 antigen)

UniProt Protein Name	Signal transducer CD24
UniProt Gene Name	CD24
UniProt Synonym Gene Names	CD24A
UniProt Entry Name	CD24_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/human-antibody/cd24/129278>