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Datasheet for ABIN192413
anti-CD24 antibody (FITC)

4 Images

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Overview

Quantity:	100 tests
Target:	CD24
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD24 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Glycoproteins purified from human NALM-1 cell line.
Clone:	SN3
Isotype:	IgG1
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.
Cross-Reactivity (Details):	Human
Purification:	Purified antibody is conjugated with fluorescein isothiocyanate (FITC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography.

Target Details

Target:	CD24
Alternative Name:	CD24 (CD24 Products)
Background:	CD24 Molecule,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.,HSA, nectadorin, SCLC4
Gene ID:	100133941
UniProt:	P25063
Pathways:	Regulation of Leukocyte Mediated Immunity , Positive Regulation of Immune Effector Process , Activated T Cell Proliferation

Application Details

Application Notes:	Flow cytometry: The reagent is designed for analysis of human blood cells using 20 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (2 ml) is sufficient for 100 tests.
Comment:	The purified antibody is conjugated with Fluorescein isothiocyanate (FITC) under optimum conditions. The reagent is free of unconjugated FITC and adjusted for direct use. No reconstitution is necessary.
Restrictions:	For Research Use only

Handling

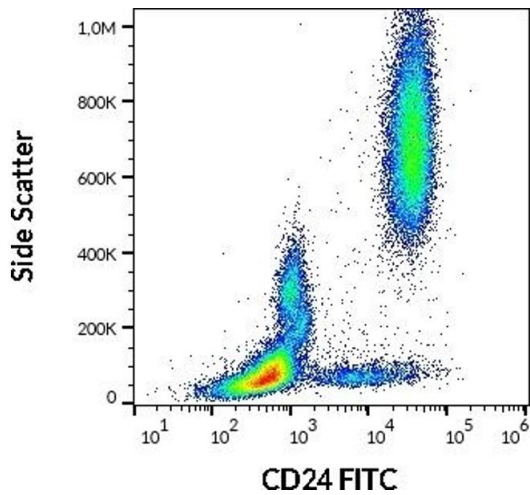
Reconstitution:	No reconstitution is necessary.
Buffer:	Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

Handling Advice:	Do not freeze. Avoid prolonged exposure to light.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

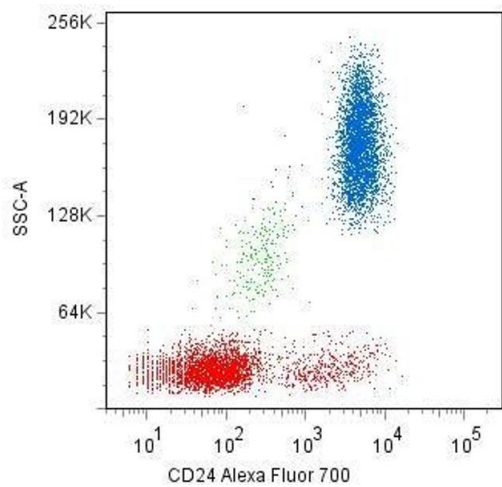
Publications

- Product cited in:
- Všianská, Říhová, Varmužová, Suská, Kryukov, Mikulášová, Kupská, Penka, Pour, Adam, Hájek: "Analysis of B-cell subpopulations in monoclonal gammopathies." in: **Clinical lymphoma, myeloma & leukemia**, Vol. 15, Issue 4, pp. e61-71, (2015) ([PubMed](#)).
- Maliar, Servais, Waks, Chmielewski, Lavy, Altevogt, Abken, Eshhar: "Redirected T cells that target pancreatic adenocarcinoma antigens eliminate tumors and metastases in mice." in: **Gastroenterology**, Vol. 143, Issue 5, pp. 1375-84.e1-5, (2012) ([PubMed](#)).
- Qiu, Low, Chang, Strohsnitter, Anderson, Edmiston, Adami, Ekbohm, Hall, Lagiou, Trichopoulos, Hsieh: "Novel measurements of mammary stem cells in human umbilical cord blood as prospective predictors of breast cancer susceptibility in later life." in: **Annals of oncology : official journal of the European Society for Medical Oncology / ESMO**, Vol. 23, Issue 1, pp. 245-50, (2011) ([PubMed](#)).
- Solvason, Kearney: "The human fetal omentum: a site of B cell generation." in: **The Journal of experimental medicine**, Vol. 175, Issue 2, pp. 397-404, (1992) ([PubMed](#)).
- Fischer, Majdic, Gadd, Knapp: "Signal transduction in lymphocytic and myeloid cells via CD24, a new member of phosphoinositol-anchored membrane molecules." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 144, Issue 2, pp. 638-41, (1990) ([PubMed](#)).
- There are more publications referencing this product on: [Product page](#)



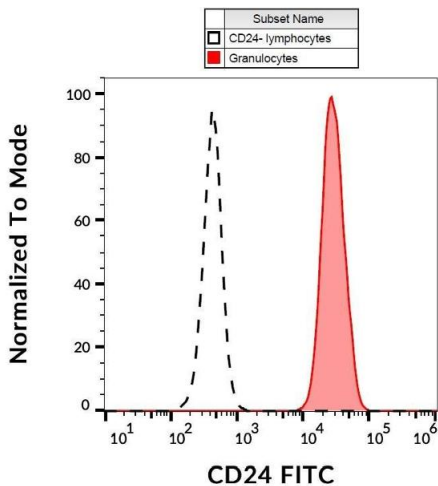
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral whole blood stained using anti-human CD24 (SN3) FITC antibody (20 µL reagent / 100 µL of peripheral whole blood).



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-CD24 (SN3) Alexa Fluor® 700.



Flow Cytometry

Image 3. Surface staining of human peripheral blood cells with anti-human CD24 (SN3) FITC.

Please check the [product details page](#) for more images. Overall 4 images are available for ABIN192413.