Datasheet for ABIN94119

anti-CD43 antibody (FITC)

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Overview

Quantity:	100 tests
Target:	CD43 (SPN)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD43 antibody is conjugated to FITC
Application:	Flow Cytometry (FACS)

Product Details

Immunogen:	Human T lymphocytes.
Clone:	MEM-59
Isotype:	IgG1
Specificity:	The antibody MEM-59 recognizes a neuraminidase-sensitive extracellular epitope on CD43 (Leukosialin), a 95-135 kDa type I transmembrane glycoprotein (mucin-type) which is involved in lymphocyte activation. CD43 is expressed by platelets and at high levels on the surface of all leukocytes, it is negative on resting B lymphocytes and erythrocytes.
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:	CD43 (SPN)
Alternative Name:	CD43 (SPN Products)
Background:	Sialophorin,CD43 (leukosialin, sialophorin) is a transmembrane mucin-like protein with high negative charge, expressed on the surface of most hematopoietic cells. CD43 contributes to a repulsive barrier that interferes with cellular adhesion, however, in certain cases also promotes leukocyte aggregation. By interaction with actin-binding proteins ezrin and moesin CD43 plays a regulatory role in remodeling T-cell morphology and regulates cell-cell interactions during lymphocyte traffic. CD43 signaling both enhances LFA-1 adhesiveness and counteracts LFA-1 induction via other receptors. Expression of CD43 causes induction of functionally active tumour suppressor p53 protein, but in case of p53 and ARF defficiency CD43 promotes tumour proliferation and viability. It appears to be an important modulator of leukocyte functions.,Leukosialin, Sialophorin, Galactoglycoprotein, GALGP, LSN, SPN, GALGP, GP5
Gene ID:	6693
UniProt:	P16150
Pathways:	Regulation of Leukocyte Mediated Immunity

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:

Schatzlmaier, Supper, Göschl, Zwirzitz, Eckerstorfer, Ellmeier, Huppa, Stockinger: "Rapid multiplex analysis of lipid raft components with single-cell resolution." in: **Science signaling**, Vol. 8, Issue 395, pp. rs11, (2015) (PubMed).

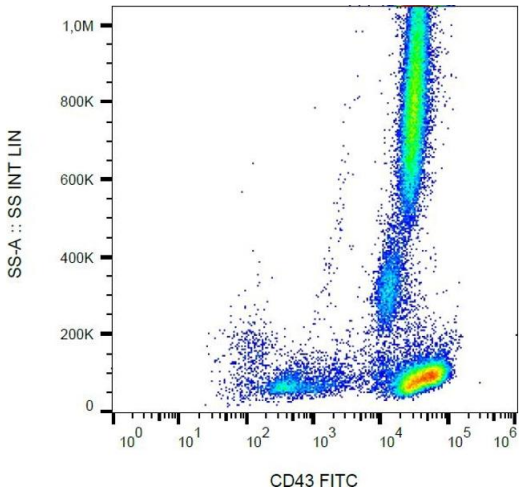
Símová, Klíma, Cermak, Sourková, Andera: "Arf and Rho GAP adapter protein ARAP1 participates in the mobilization of TRAIL-R1/DR4 to the plasma membrane." in: **Apoptosis : an international journal on programmed cell death**, Vol. 13, Issue 3, pp. 423-36, (2008) (PubMed).

Filatov, Krotov, Zgoda, Volkov: "Fluorescent immunoprecipitation analysis of cell surface proteins: a methodology compatible with mass-spectrometry." in: **Journal of immunological methods**, Vol. 319, Issue 1-2, pp. 21-33, (2007) (PubMed).

Cermák, Símová, Pintzas, Horejsí, Andera: "Molecular mechanisms involved in CD43-mediated apoptosis of TF-1 cells. Roles of transcription Daxx expression, and adhesion molecules." in: **The Journal of biological chemistry**, Vol. 277, Issue 10, pp. 7955-61, (2002) (PubMed).

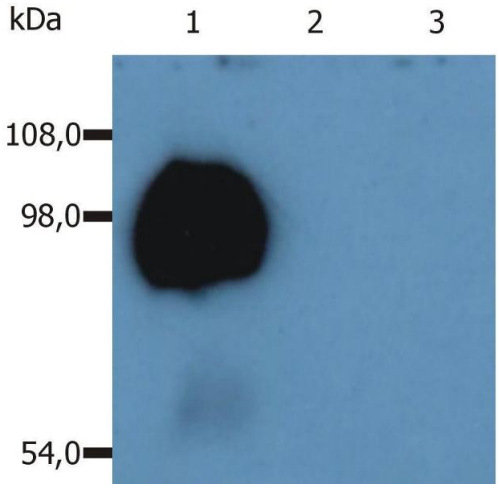
Alvarado, Klassen, Cerny, Horejsí, Schmidt: "MEM-59 monoclonal antibody detects a CD43 epitope involved in lymphocyte activation." in: **European journal of immunology**, Vol. 25, Issue 4 , pp. 1051-5, (1995) (PubMed).

There are more publications referencing this product on: Product page



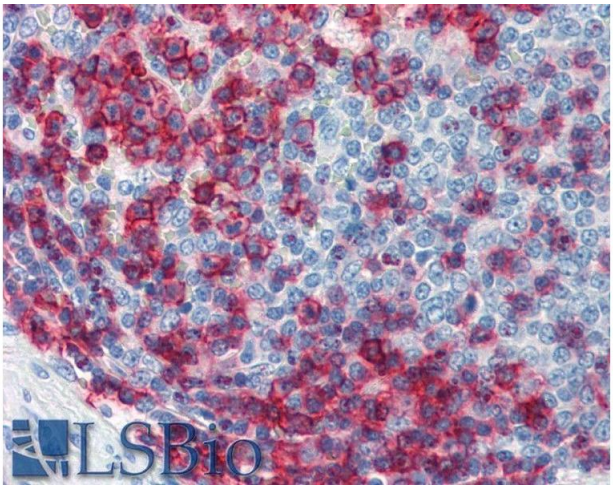
Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of human peripheral blood with anti-CD43 (MEM-59) FITC.



Western Blotting

Image 2. peripheral blood lymphocytes of various species using anti-human CD43 (MEM-59). Lane 1: lysate of human PBL Lane 2: lysate of canine PBL Lane 3: lysate of porcine PBL



Immunohistochemistry

Image 3. Immunohistochemistry staining of human spleen (paraffin sections) using anti-CD43 (Commercially tested by LifeSpan BioSciences.

