

Datasheet for ABIN2749028

**anti-CD43 antibody****5** Images**6** Publications[Go to Product page](#)

## Overview

Quantity:	0.1 mg
Target:	CD43 (SPN)
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD43 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Immunoprecipitation (IP), Functional Studies (Func)

## 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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

## Product Details

Endotoxin Level: Endotoxin level is less than 0.01 EU/μg of the protein, as determined by the LAL test.

## Target Details

Target:	CD43 (SPN)
Alternative Name:	CD43 ( <a href="#">SPN Products</a> )
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:	<a href="#">P16150</a>
Pathways:	<a href="#">Regulation of Leukocyte Mediated Immunity</a>

## Application Details

Application Notes: Functional application: The antibody MEM-59 activates T lymphocytes and also induces apoptosis in hemopoietic progenitor cells.

Flow cytometry: Recommended dilution: 1-5 μg/mL.

Immunohistochemistry (paraffin sections): Positive tissue: spleen, thymus, tonsil, recommended dilution: 10 μg/mL.

Restrictions: For Research Use only

## Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4
Preservative:	Azide free

## Handling

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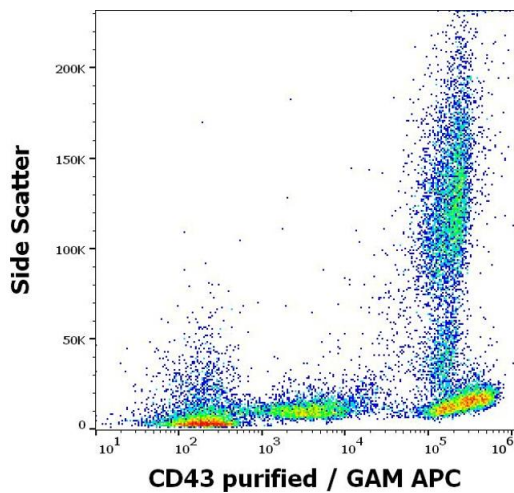
Storage: 4 °C

Storage Comment: Store at 2-8°C. Do not freeze.

## Publications

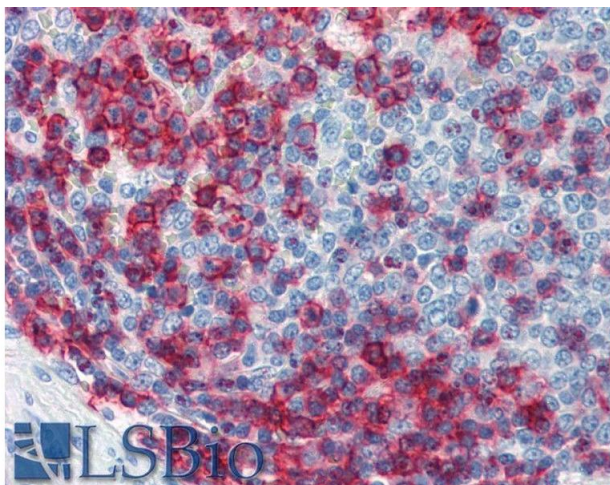
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- Product cited in:
- Schatzmaier, Supper, Göschl, Zwirzitz, Eckerstorfer, Ellmeier, Huppa, Stockinger: "Rapid multiplex analysis of lipid raft components with single-cell resolution." in: **Science signaling**, Vol. 8, Issue 395, pp. rs11, (2015)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



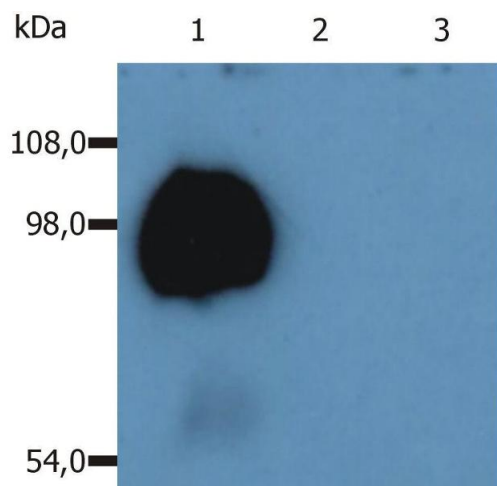
### Flow Cytometry

**Image 1.** Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD43 (MEM-59) purified antibody (concentration in sample 2 µg/mL, GAM APC).



### Immunohistochemistry

**Image 2.** Immunohistochemistry staining of human spleen (paraffin sections) using anti-CD43 (Commercially tested by LifeSpan BioSciences).



### Western Blotting

**Image 3.** 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

Please check the [product details page](#) for more images. Overall 5 images are available for ABIN2749028.