

## Product datasheet for **SM3023F**

### LOC105369261 Mouse Monoclonal Antibody [Clone ID: MEM-59]

#### Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-59
Applications:	FC, IHC, WB
Recommended Dilution:	Flow Cytometry analysis of human blood cells using 20 µl reagent / 100 µl of whole blood or 10e6 cells in a suspension.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human T lymphocytes
Specificity:	This antibody recognizes neuraminidase-sensitive 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.
Formulation:	Phosphate buffered saline (PBS) containing 15 mM sodium azide and 0.2% (w/v) high-grade protease free Bovine Serum Albumin (BSA) as a stabilizing agent Label: FITC State: Liquid Ig fraction Label: Fluorescein isothiocyanate
Conjugation:	FITC
Storage:	Store the antibody at 2 - 8 °C. DO NOT FREEZE! This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Database Link:	<a href="#">Entrez Gene 105369261 Human P16150</a>

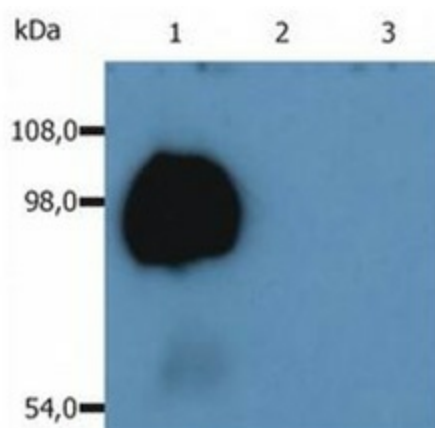
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**Background:**

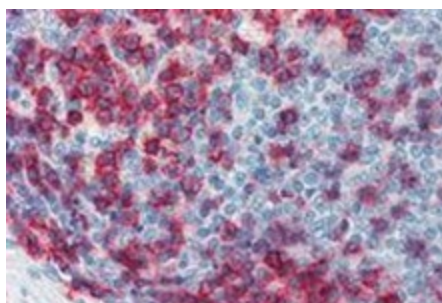
CD43 (leukosialin, sialophorin) is a transmembrane mucin-like protein with high negative charge, expressed on the surface of most hematopoietic cells. CD43 contributes to a repulsive barrier that interferes with cellular adhesion, however, in certain cases also promotes leukocyte aggregation. By interaction 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 deficiency CD43 promotes tumour proliferation and viability. It appears to be an important modulator of leukocyte functions.

**Synonyms:**

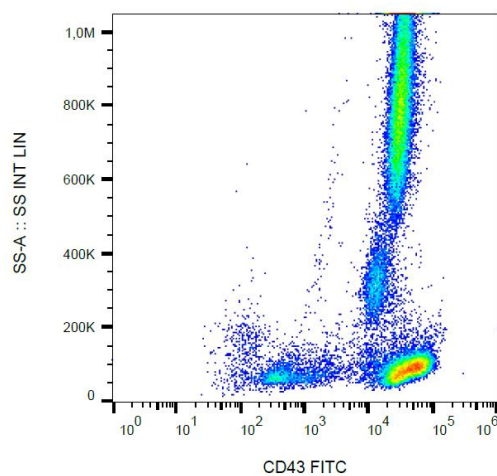
Leukocyte sialoglycoprotein, Sialophorin, Galactoglycoprotein, SPN

**Product images:**


Western Blotting analysis (non-reducing conditions) of isolated 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 staining of human spleen (paraffin sections) using anti-CD43 (MEM-59).



Surface staining of human peripheral blood with anti-CD43 (MEM-59) FITC.