

Product datasheet for **SM3023LE**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-59
Applications:	IHC, WB
Recommended Dilution:	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.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Human T lymphocytes
Specificity:	The antibody MEM-59 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:	Azide free phosphate buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized State: Low Endotoxin State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Database Link:	Entrez Gene 105369261 Human P16150



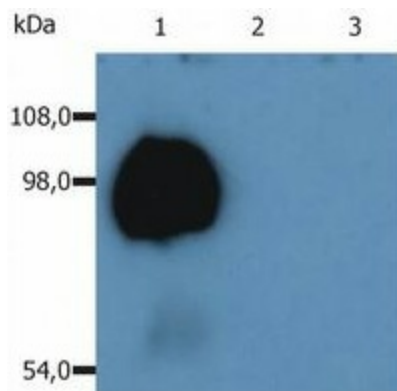
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Background:

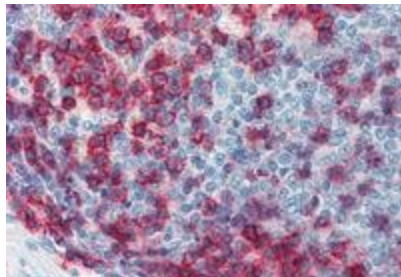
CD43 (leukosialin, sialophorin) is a transmembrane mucin-like protein with high negative charge, expressed on the surface of most hematopoietic cells. CD43 contributes to a repulsive barrier that interferes with cellular adhesion, however, in certain cases also promotes leukocyte aggregation. By interaction 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)