

Product datasheet for **SM1137LE**

CD53 Mouse Monoclonal Antibody [Clone ID: MEM-53]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-53
Applications:	FC, FN, IHC, IP, WB
Recommended Dilution:	Functional application: The antibody MEM-53 induces activation of monocytes and B lymphocytes. Immunohistochemistry (frozen sections): It is suitable for discrimination of lymphomas from other tumors. Flow cytometry: Recommended dilution: 1-5 µg/ml.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Immunogen:	Leukocytes of patient suffering from a LGL-type leukemia
Specificity:	This antibody reacts with CD53, a 32-40 kDa tetraspanin family glycoprotein exclusively expressed on leukocytes; it is not present on platelets, red blood cells and non-hematopoietic cells. The antibody MEM-53 reacts also with deglycosylated molecule (molecular weight of the antigen is reduced by 15 kDa using endoglycosidase F).
Formulation:	Phosphate Buffered saline (PBS), approx. pH 7.4; 0.2 µm filter sterilized State: Low Endotoxin State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Purified by protein A (> 95% pure by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C. DO NOT FREEZE!
Stability:	Shelf life: one year from despatch.
Gene Name:	CD53 molecule



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Database Link: [Entrez Gene 963 Human P19397](#)

Background: CD53 is a tetraspanin family transmembrane glycoprotein expressed in the lymphoid-myeloid lineage. This molecule has been reported to form complexes with other leukocyte surface proteins such as CD2, CD19, CD21, MHC II, VLA-4 or tetraspanins CD37, CD81 and CD82, thus probably modulating various signaling processes. CD53 is involved in radioresistancy of tumour cells and its triggering has anti-apoptotic effect. In thymus, CD53 is up-regulated in response to positive selection signals during T cell development, and is strongly expressed upon macrophage exposure to bacterial lipopolysaccharide, whereas stimulation of neutrophils results in down-regulation of CD53 expression.

Synonyms: Cell surface glycoprotein CD53, Tetraspanin-25, MOX44, TSPAN25