

Product datasheet for **SM1137F**

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

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-53
Applications:	FC
Recommended Dilution:	Flow cytometry.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG1
Clonality:	Monoclonal
Specificity:	This antibody reacts with a 32kDa antigen, a single chain glycoprotein on most leucocytes. There is no crossreactivity with erythrocytes or platelets. The antibody recognises a broad span of leucocytes of both normal and neoplastic origin.
Formulation:	PBS containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC State: Liquid purified IgG Label: Fluorescein Isothiocyanate Isomer 1
Concentration:	lot specific
Purification:	Ion exchange chromatography
Conjugation:	FITC
Storage:	Store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Avoid repeated freezing and thawing. This product is photosensitive and should be protected from light.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD53 molecule
Database Link:	Entrez Gene 963 Human P19397



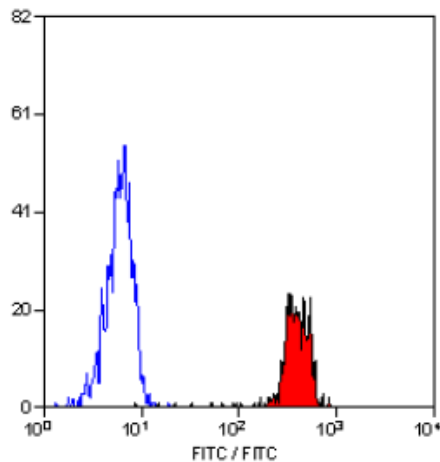
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Background:

CD53 is a member of the tetraspan family of molecules, and is expressed by all leucocytes, but is absent from red cells and platelets. Most of the tetraspan family of molecules are cell surface proteins that are characterized by the presence of four hydrophobic domains. The proteins mediate signal transduction events that play a role in the regulation of cell development, activation, growth and motility. CD53 is a cell surface glycoprotein that is known to complex with integrins. It contributes to the transduction of CD2 generated signals in T cells and natural killer cells and has been suggested to play a role in growth regulation. Familial deficiency of this gene has been linked to an immunodeficiency associated with recurrent infectious diseases caused by bacteria, fungi and viruses. CD53 is a glycoprotein of 32-40 kDa belonging to the tetraspans family (TM4SF). CD53 antigen is exclusively expressed on leucocytes (not present on platelets, red blood cells and non-hematopoietic cells). CD53 is important for signal transduction. CD53 cross-linking promotes activation of human B cells and rat macrophages.

Synonyms:

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

Product images:

Staining of human peripheral blood monocytes with MOUSE ANTI HUMAN CD53:FITC (SM1137F).