

Monoclonal Antibody to CD53 - FITC

Alternate names:	Cell surface glycoprotein CD53, Leukocyte surface antigen CD53, MOX44, TSPAN25, Tetraspanin-25
Catalog No.:	SM1137F
Quantity:	100 Tests
Concentration:	0.1 mg/ml
Background:	<p>CD53 is a member of the tetraspan family of molecules, and is expressed by all leucocytes, but is absent from red cells and platelets.</p> <p>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.</p>
Uniprot ID:	P19397
NCBI:	NP_000551.1
GeneID:	963
Host / Isotype:	Mouse / IgG1
Clone:	MEM-53
Format:	State: Liquid purified IgG Purification: Ion exchange chromatography Buffer System: PBS containing 0.09% Sodium Azide and 1% Bovine Serum Albumin Label: FITC – Fluorescein Isothiocyanate Isomer 1
Applications:	Flow cytometry. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
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. Species: Human. Other species not tested.

For research and in vitro use only. Not for diagnostic or therapeutic work.

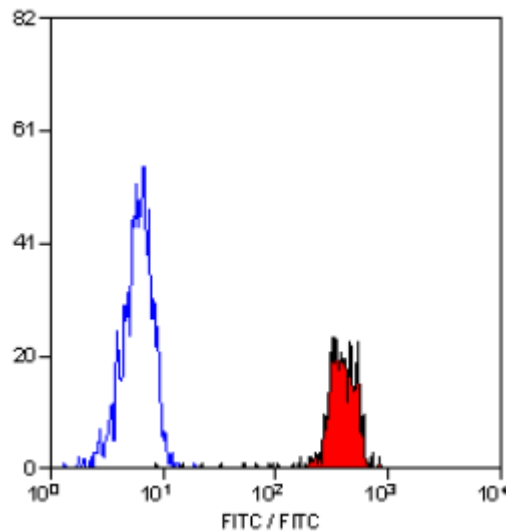
Material Safety Datasheets are available at www.acris-antibodies.com or on request.

Antibody Hotline - Technical Questions - Antibody Location Service
Free Call: 0800-2274746 (Germany only) - www.acris-antibodies.com

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. Shelf life: one year from despatch.

General References: 1. Bazil, V. et al. (1989) *Fol. Biol. (Prague)* 35: 289-98.
2. Angelisova P. et al. (1990) *Immunogen.* 32: 281-285.

Pictures:



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

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