

Datasheet for ABIN94171

anti-CD53 antibody**2** Images**4** Publications[Go to Product page](#)

Overview

Quantity:	0.1 mg
Target:	CD53
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD53 antibody is un-conjugated
Application:	Flow Cytometry (FACS), Western Blotting (WB), Immunoprecipitation (IP), Immunohistochemistry (Frozen Sections) (IHC (fro))

Product Details

Immunogen:	Leukocytes of patient suffering from a LGL-type leukemia.
Clone:	MEM-53
Isotype:	IgG1
Specificity:	The antibody MEM-53 reacts with an extracellular epitope of 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).
Cross-Reactivity (Details):	Human
Purification:	Purified by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

Target Details

Target:	CD53
Alternative Name:	CD53 (CD53 Products)
Background:	CD53 Molecule,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 radioresistance 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.,Tetraspanin-25, MOX44, TSPAN25
Gene ID:	963
UniProt:	P19397

Application Details

Application Notes:	Immunohistochemistry (frozen sections): It is suitable for discrimination of lymphomas from other tumors. Flow cytometry: Recommended dilution: 1-5 µg/mL.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Do not freeze.
Storage:	4 °C
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:	Schatzlmaier, Supper, Göschl, Zwirnitz, Eckerstorfer, Ellmeier, Huppa, Stockinger: "Rapid
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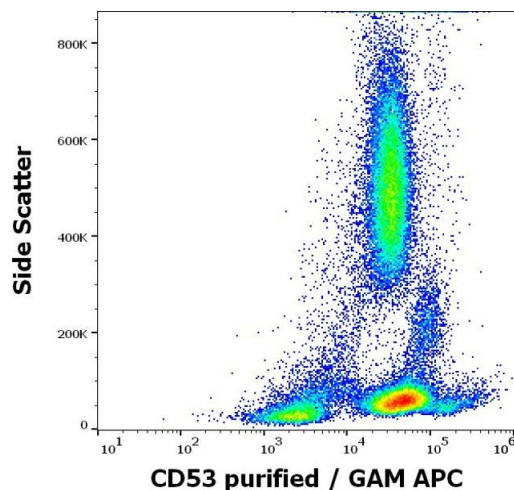
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Szöllősi, Horejsi, Bene, Angelisová, Damjanovich: "Supramolecular complexes of MHC class I, MHC class II, CD20, and tetraspan molecules (CD53, CD81, and CD82) at the surface of a B cell line JY." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 157, Issue 7, pp. 2939-46, (1996) ([PubMed](#)).

Olweus, Lund-Johansen, Terstappen: "CD64/Fc gamma RI is a granulo-monocytic lineage marker on CD34+ hematopoietic progenitor cells." in: **Blood**, Vol. 85, Issue 9, pp. 2402-13, (1995) ([PubMed](#)).

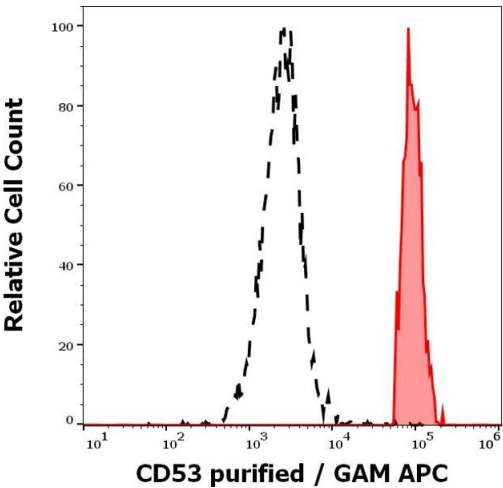
Rasmussen, Blomhoff, Stokke, Horejsi, Smeland: "Cross-linking of CD53 promotes activation of resting human B lymphocytes." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 153, Issue 11, pp. 4997-5007, (1994) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD53 (MEM-53) purified antibody (concentration in sample 3 µg/mL, GAM APC).



Flow Cytometry

Image 2. Separation of human monocytes (red-filled) from human CD53 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral blood stained using anti-human CD53 (MEM-53) purified antibody (concentration in sample 3 $\mu\text{g}/\text{mL}$, GAM APC).