

CD53 monoclonal antibody, clone MEM-53 (PE)

Catalog # MAB4640 Size 100 Reactions

Specification	
Product Description	Mouse monoclonal antibody raised against native CD53.
Immunogen	Native purified CD53 from leukocytes of patient suffering from LGL-type leukaemia.
Host	Mouse
Theoretical MW (kDa)	32-40
Reactivity	Human
Specificity	This antibody reacts with CD53, a 32-40 KDa tetraspanin family glycoprotein exclusivelly expressed on leukocytes; it is not present on platelets, red blood cells and non-hematopoietic cells. This antibod y reacts also with deglycosylated molecule (molecular weight of the antigen is reduced by 15 KDa using endoglycosidase F).
Form	Liquid
Conjugation	PE
Isotype	
7 1	lgG1
Recommend Usage	Flow Cytometry (20 ul in human blood cells 100 ul in whole blood or 10 ⁶ cells in a suspension) The optimal working dilution should be determined by the end user.
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Applications

Flow Cytometry



Gene Info — CD53	
Entrez GenelD	963
Gene Name	CD53
Gene Alias	MOX44, TSPAN25
Gene Description	CD53 molecule
Omim ID	<u>151525</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	The protein encoded by this gene is a member of the transmembrane 4 superfamily, also known a s the tetraspanin family. Most of these members 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. This encoded protein 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 immunodeficien cy associated with recurrent infectious diseases caused by bacteria, fungi and viruses. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq
Other Designations	CD53 antigen CD53 glycoprotein CD53 tetraspan antigen OTTHUMP00000013686 OTTHUMP0 0000059505 antigen MOX44 identified by monoclonal antibody MRC-OX44 cell surface antigen l eukocyte surface antigen CD53 tetraspanin-25 transmembrane glycoprotein

Publication Reference

 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.

Szöllósi J, Horejsí V, Bene L, Angelisová P, Damjanovich S.

The Journal of Immunology 1996 Oct; 157(7):2939.

Cross-linking of CD53 promotes activation of resting human B lymphocytes.

Rasmussen AM, Blomhoff HK, Stokke T, Horejsi V, Smeland EB.

The Journal of Immunology 1994 Dec; 153(11):4997.



Product Information

Monoclonal antibodies against human leucocyte antigens. III. Antibodies against CD45R, CD6, CD44 and two
newly described broadly expressed glycoproteins MEM-53 and MEM-102.

Bazil V, Stefanová I, Hilgert I, Kristofová H, Vaněk S, Bukovský A, Horejsí V.

Folia Biol (Praha) 1989 Jan; 35(5):289.

Disease

- Cardiovascular Diseases
- Diabetes Mellitus
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