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Anti-CD53 Antibody (clone MEM-53)

Mouse Anti Human Monoclonal Antibody
Catalog # ALS17635

Product Information

Application	WB, IHC-P, IHC-F, IP, FC
Primary Accession	P19397
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Names	MEM-53
Calculated MW	24341
Concentration (mg/ml)	1 mg/ml

Additional Information

Gene ID	963
Alias Symbol	CD53
Other Names	CD53, CD53 antigen, CD53 molecule, CD53 tetraspan antigen, Cell surface antigen, Leukocyte surface antigen CD53, Transmembrane glycoprotein, Tetraspanin-25, Tspan-25, CD53 glycoprotein, Cell surface glycoprotein CD53, MOX44, TSPAN25
Reconstitution & Storage	Protein G purified
Precautions	Anti-CD53 Antibody (clone MEM-53) is for research use only and not for use in diagnostic or therapeutic procedures.

Protein Information

Name	CD53
Synonyms	MOX44, TSPAN25
Function	Structural component of specialized membrane microdomains known as tetraspanin-enriched microdomains (TERMs), which act as platforms for receptor clustering and signaling (PubMed:28487417). Participates thereby in diverse biological functions such as cell signal transduction, adhesion, migration and protein trafficking (PubMed:32974937, PubMed:35767951). Plays a role in the activation of monocytes and B-cells (PubMed:8335905). Acts as an essential regulator of B-cell development by promoting interleukin-7 receptor/IL7R signaling (By similarity). Also promotes, in B-cells, the BCR signaling by recruiting PKC to the plasma membrane in order to phosphorylate its substrates (PubMed:28487417). Plays an essential role in B-

	and T-cells homing to lymph nodes by stabilizing L-selectin/SELL cell surface expression (By similarity). Also mediates metabolic and inflammatory functions in hepatocytes and adipose tissue by promoting TNF and LPS signaling independent of the immune compartment (By similarity).
Cellular Location	Cell membrane. Cell junction {ECO:0000250|UniProtKB:Q61451}. Membrane; Multi-pass membrane protein. Synapse. Note=Concentrates in localized microdomains along the plasma membrane at the contact sites between cells of fused myotubes. {ECO:0000250|UniProtKB:Q61451}
Tissue Location	B-cells, monocytes, macrophages, neutrophils, single (CD4 or CD8) positive thymocytes and peripheral T-cells

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.