

Anti-CD53 Antibody (clone MEM-53)
Mouse Anti Human Monoclonal Antibody
Catalog # ALS17635**Specification**

Anti-CD53 Antibody (clone MEM-53) - Product Information

Application	WB, IHC-P, IHC-F, IP, FC
Primary Accession	P19397
Predicted	Human
Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Calculated MW	24341
Dilution	WB~~1:1000 IHC-P~~N/A IHC-F~~N/A IP~~N/A FC~~1:10~50

Anti-CD53 Antibody (clone MEM-53) - 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.

Anti-CD53 Antibody (clone MEM-53) - 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).

target="_blank">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-alpha 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

Anti-CD53 Antibody (clone MEM-53) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-CD53 Antibody (clone MEM-53) - Images