

# Anti-CD53 Antibody (clone MEM-53)

Mouse Anti Human Monoclonal Antibody  
Catalog # ALS17635

## Product Information

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|------------------------------|--------------------------|
| <b>Application</b>           | WB, IHC-P, IHC-F, IP, FC |
| <b>Primary Accession</b>     | <a href="#">P19397</a>   |
| <b>Predicted</b>             | Human                    |
| <b>Host</b>                  | Mouse                    |
| <b>Clonality</b>             | Monoclonal               |
| <b>Isotype</b>               | IgG1                     |
| <b>Clone Names</b>           | MEM-53                   |
| <b>Calculated MW</b>         | 24341                    |
| <b>Concentration (mg/ml)</b> | 1 mg/ml                  |

## Additional Information

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|-------------------------------------|--|
| <b>Gene ID</b>                      | 963  |
| <b>Alias Symbol</b>                 | CD53   |
| <b>Other Names</b>                  | 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 |
| <b>Reconstitution &amp; Storage</b> | Protein G purified   |
| <b>Precautions</b>                  | Anti-CD53 Antibody (clone MEM-53) is for research use only and not for use in diagnostic or therapeutic procedures.  |

## Protein Information

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|-----------------|---|
| <b>Name</b>     | CD53  |
| <b>Synonyms</b> | MOX44, TSPAN25  |
| <b>Function</b> | Structural component of specialized membrane microdomains known as tetraspanin-enriched microdomains (TERMs), which act as platforms for receptor clustering and signaling (PubMed: <a href="#">28487417</a> ). Participates thereby in diverse biological functions such as cell signal transduction, adhesion, migration and protein trafficking (PubMed: <a href="#">32974937</a> , PubMed: <a href="#">35767951</a> ). Plays a role in the activation of monocytes and B-cells (PubMed: <a href="#">8335905</a> ). 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: <a href="#">28487417</a> ). 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'.