

CD59 Antibody (clone MEM-43/5)
Mouse Monoclonal Antibody
Catalog # ALS11974

Specification

CD59 Antibody (clone MEM-43/5) - Product Information

Application	WB, IHC-P, IP, FC
Primary Accession	P13987
Reactivity	Human, Mouse
Host	Mouse
Clonality	Monoclonal
Calculated MW	14kDa KDa
Dilution	WB~~1:1000 IHC-P~~N/A IP~~N/A FC~~1:10~50

CD59 Antibody (clone MEM-43/5) - Additional Information

Gene ID 966

Other Names

CD59 glycoprotein, 1F5 antigen, 20 kDa homologous restriction factor, HRF-20, HRF20, MAC-inhibitory protein, MAC-IP, MEM43 antigen, Membrane attack complex inhibition factor, MACIF, Membrane inhibitor of reactive lysis, MIRL, Protectin, CD59, CD59, MIC11, MIN1, MIN2, MIN3. MSK21

Target/Specificity

Thymocytes and T lymphocytes

Reconstitution & Storage

Short term 4°C, long term aliquot and store at -20°C, avoid freeze thaw cycles.

Precautions

CD59 Antibody (clone MEM-43/5) is for research use only and not for use in diagnostic or therapeutic procedures.

CD59 Antibody (clone MEM-43/5) - Protein Information

Name CD59 {ECO:0000303|PubMed:2475570, ECO:0000312|HGNC:HGNC:1689}

Function

Potent inhibitor of the complement membrane attack complex (MAC) action, which protects human cells from damage during complement activation (PubMed:11882685, PubMed:1698710, PubMed:2475111, PubMed:2475570, PubMed:<a

[2606909](http://www.uniprot.org/citations/2606909), PubMed:<[9053451](http://www.uniprot.org/citations/9053451)>). Acts by binding to the beta-haipins of C8 (C8A and C8B) components of the assembling MAC, forming an intermolecular beta-sheet that prevents incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore (PubMed:<[11882685](http://www.uniprot.org/citations/11882685)>, PubMed:<[1698710](http://www.uniprot.org/citations/1698710)>, PubMed:<[36797260](http://www.uniprot.org/citations/36797260)>).

Cellular Location

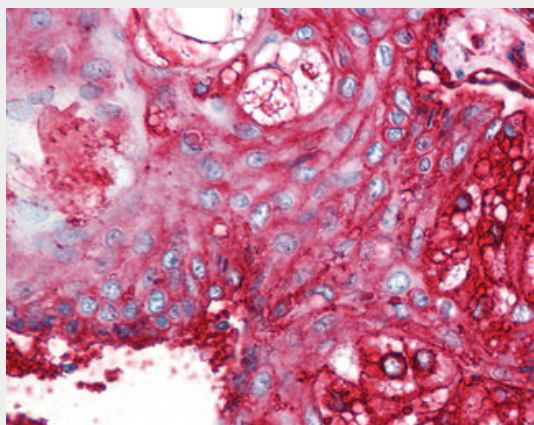
Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Note=Localizes to the cell surface (PubMed:36797260). Soluble form found in a number of tissues (PubMed:8670172).

CD59 Antibody (clone MEM-43/5) - 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](#)

CD59 Antibody (clone MEM-43/5) - Images



Anti-CD59 antibody IHC of human skin, pilosebaceous unit.

CD59 Antibody (clone MEM-43/5) - Background

Potent inhibitor of the complement membrane attack complex (MAC) action. Acts by binding to the C8 and/or C9 complements of the assembling MAC, thereby preventing incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore. This inhibitor appears to be species-specific. Involved in signal transduction for T-cell activation complexed to a protein tyrosine kinase.

CD59 Antibody (clone MEM-43/5) - References

Davies A., et al. J. Exp. Med. 170:637-654(1989).

Philbrick W.M.,et al.Eur. J. Immunol. 20:87-92(1990).
Okada H.,et al.Biochem. Biophys. Res. Commun. 162:1553-1559(1989).
Sugita Y.,et al.J. Biochem. 106:555-557(1989).
Sawada R.,et al.DNA Cell Biol. 9:213-220(1990).