

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide
Mouse Monoclonal Antibody [Clone 193-27]
Catalog # AH12764

Specification

**CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide -
Product Information**

Application	,3,4,
Primary Accession	P13987
Other Accession	966 , 278573 , 709466 , 710641
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgM, kappa
Calculated MW	20kDa KDa

**CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide -
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

Storage

Store at 2 to 8°C. Antibody is stable for 24 months.

Precautions

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide is for research use only and not for use in diagnostic or therapeutic procedures.

**CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide -
Protein Information**

Name CD59

Synonyms MIC11, MIN1, MIN2, MIN3, MSK21

Function

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.

Cellular Location

Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Note=Soluble form found in a number of tissues

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide - 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 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide - Images

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide - Background

Reacts with human CD59, a 20kDa glycosyl phosphatidyl-inositol (GPI)-anchored cell surface protein (Workshop VI; Code N-L036). CD59 regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. This protein is a potent inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or C9 during the assembly of this complex, thereby inhibiting the incorporation of multiple copies of C9 into the complex, which is necessary for osmolytic pore formation. CD59 is widely distributed on cells in all tissues. It inhibits formation of MAC, thus protecting cells from complement-mediated lysis. The expression of CD59 on erythrocytes is important for their survival. Genetic defects in GPI-anchor attachment, that cause a reduction or loss of CD59 and CD55 on erythrocytes produce the symptoms of the disease paroxysmal hemoglobinuria (PNH). This MAb recognizes CD59 transfected cells. It is useful for study on GPI-anchored proteins, PNH and CD59 functions.

CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide - References

Kishimoto T. et al., eds. Leukocyte Typing VI, p521-522 and p1157, Garland Publishing, Inc, New York and London, 1997. | Shichishima T. et al. Diagnosis of paroxysmal nocturnal haemoglobinuria by phenotypic analysis of erythrocytes using two-colour flow cytometry with monoclonal antibodies to DAF and CD59/MACIF. Br J Haematol 1993, 85(2):378-386 | Navenot JM. et al. Investigation of the survival of paroxysmal nocturnal hemoglobinuria red cells through the immunophenotyping of reticulocytes. Transfusion 1998 38(4):337-342. | Murray EW and Robbins SM. Antibody cross-linking of the glycosylphosphatidylinositol-linked protein CD59 on hematopoietic cells induces signaling pathways resembling activation by complement. J Biol Chem 1998, 273(39):25279-25284