

**CD59 / Complement Regulatory Protein / Protectin Antibody - With BSA and Azide**  
**Mouse Monoclonal Antibody [Clone MACIF/629 ]**  
**Catalog # AH12769**

**Specification**

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

Application	,2,3,4,
Primary Accession	<a href="#">P13987</a>
Other Accession	<a href="#">966</a> , <a href="#">278573</a> , <a href="#">709466</a> , <a href="#">710641</a>
Reactivity	Human
Host	Mouse
Clonality	Monoclonal
Isotype	Mouse / IgG1, 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

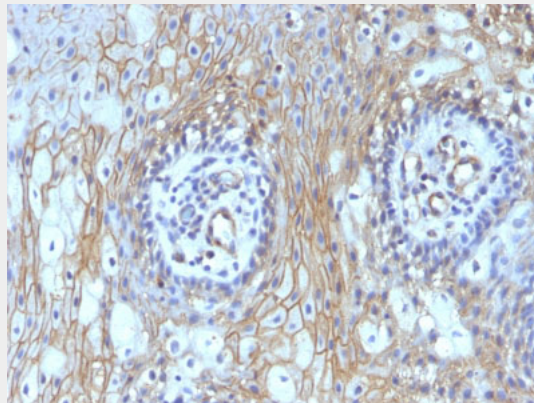
Cell membrane; Lipid-anchor, GPI-anchor. Secreted. Note=Soluble form found in a number of tissues

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

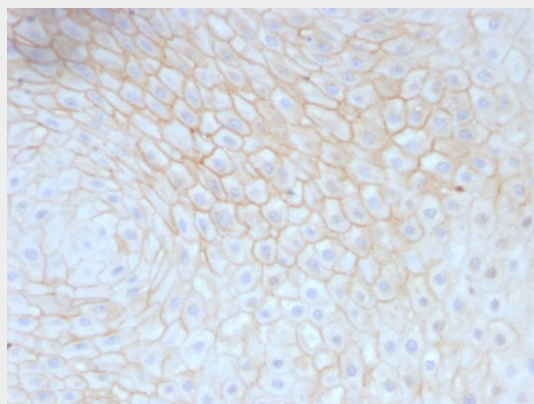
Provided below are standard protocols that you may find useful for product applications.

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

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



Formalin-fixed, paraffin-embedded human Tongue stained with CD59 Monoclonal Antibody (MACIF/629)



Formalin-fixed, paraffin-embedded human Tonsil stained with CD59 Monoclonal Antibody (MACIF/629)

### 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. 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. It inhibits formation of MAC, thus protecting cells from complement-mediated lysis. 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 is useful for study on GPI-anchored proteins, PNH and CD59 functions. CD59 is widely distributed on cells in all tissues. The expression of CD59 on erythrocytes is important for their survival.

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

A E Fritzing, F. Marciano-Cabral, et al. (2006) Infection and Immunity 74(2):1189-1195. | J Zhang, C Gerhardinger, M Lorenzi (2002) Diabetes 51(12): 3499-3504 |