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## 36-1954: Monoclonal Antibody to CD59 / Complement Regulatory Protein / Protectin(Clone: SPM616)

Clonality: Monoclonal Clone Name: SPM616

**Application:** Functional Assay, FACS, IF, IHC

Reactivity: Human
Gene: CD59
Gene ID: 966
Uniprot ID: P13987
Format: Purified

Alternative Name: CD59,MIC11,MIN1,MIN2,MIN3,MSK21

**Isotype:** Mouse IgG1, kappa

Immunogen Information: Recombinant full-length human CD59 protein

## **Description**

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.

## **Product Info**

**Amount :** 100 μg

Purification: Affinity Chromatography

Content: 100 μg in 500 μl PBS containing 0.05% BSA and 0.05% sodium azide. Sodium azide is highly

toxic.

Storage condition:

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Store the antibody at 4°C; stable for 6 months. For long-term storage; store at -20°C. Avoid

repeated freeze and thaw cycles.

## **Application Note**

Functional Studies (Order Ab without Azide); Flow Cytometry (1-2ug/million cells); Immunofluorescence (1-2ug/ml); Immunohistochemistry (Formalin-fixed) (1-2ug/ml for 30 minutes at RT)(Staining of formalin-fixed tissues requires heating tissue sections in 10mM Tris with 1mM EDTA, pH 9.0, for 45 min at 95&degC followed by cooling at RT for 20 minutes);

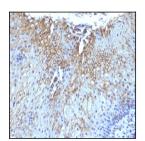


Figure-1: Formalin-fixed, paraffin-embedded human Tongue stained with CD59 Monoclonal Antibody (SPM616)