Anti-CD59 / Complement Regulatory Protein/ Protectin Antibody (Clone MACIF/629)

CATALOG NO: A1554-100

ALTERNATIVE NAMES: 20kDa homologous restriction factor (HRF20); Complement regulatory protein; Human leukocyte antigen MIC11; MAC-inhibitory protein (MACIP); Membrane attack complex inhibition factor (MACIF); Membrane inhibitor of reactive lysis; MIRL; MSK21; Protectin; T cell activating protein, 1F5 antigen, HRF-20, HRF20, MAC-IP, MEM43 antigen, CD59

AMOUNT: 100 µg

IMMUNOGEN: Recombinant full-length human CD59 protein

HOST/ISOTYPE: Mouse / IgG1, kappa

CLONALITY: Monoclonal

CLONE: MACIF/629

MOL WEIGHT: 20 kDa

SPECIES REACTIVITY: Human

PURIFICATION: Purified from Bioreactor Concentrate

FORM: Liquid

FORMULATION: Supplied in 10 mM PBS with 0.05% BSA & 0.05% azide

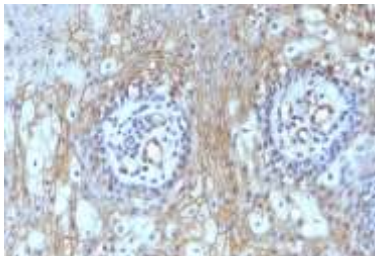
STORAGE CONDITIONS: Shipped at 4°C. Long term storage at -20°C.

DESCRIPTION: Reacts with human CD59, a 20 kDa 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.

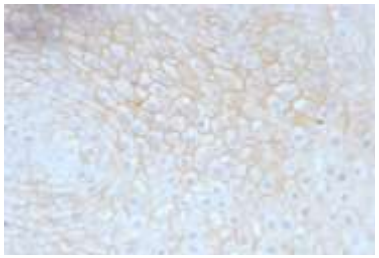
APPLICATION: FC: 0.5-1 µg/1X10^6 cells in 0.1 ml
IF: 0.5-1 µg/ml
IHC: 1-2 µg/ml for 30 minutes at RT

(Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM Citrate Buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes)

Note: This information is only intended as a guide. The optimal dilutions must be determined by the user.



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



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

RELATED PRODUCTS:

- CD73/NT5E Antibody (CT) **(Cat. No. 6802)**
- GPI, human recombinant **(Cat. No. 7822)**
- Human CellExp™ FOLR1, human recombinant **(Cat. No. 7456)**

FOR RESEARCH USE ONLY! Not to be used on humans.