## **CD59 Monoclonal Mouse Antibody** (MACIF/629)



## **Product Description**

Reacts with human CD59, a 20 kDa glycosyl phosphatidyl-inositol (GPI)-anchored cell surface protein. regulates complement-mediated cell lysis, and it is involved in lymphocyte signal transduction. This pro potent inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or the assembly of this complex, thereby inhibiting the incorporation of multiple copies of C9 into the com 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. Primary antibodies are available purified, or with a selection of fluorescent CF® dyes and other labels. CF® dyes offer exceptional brightness and photostability. See the <u>CF® Dye Brochure</u> for more information. Note: Conjugates of blue fluorescent dyes like <u>CF®405S</u> and <u>CF®405M</u> are not recommended for detecting low abundance targets, because blue dyes have lower fluorescence and can give higher non-specific background than other dye colors. **Stock status**: Because Biotium offers a large number of antibody and conjugation options, primary antibody conjugates may be made to order. Typical lead times are up to one week for CF® dye and biotin conjugates, and up to 2-3 weeks for fluorescent protein and enzyme conjugates. Please email order@biotium.com to inquire about stock status and lead times before placing your order. Catalog number key for antibody number 0629, Anti-CD59 (MACIF/629)

	Product attributes		
	Antibody number	#0629	
	Antibody reactivity (target) Antibody type	CD59	
		Primary	
	Host species	Mouse	
	Clonality	Monoclonal	
	Clone	MACIF/629	
	Isotype	IgG1, kappa	
	Molecular weight	20 kDa	
n. CD59 rotein is a or C9 during nplex, which is	Synonyms	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;	

Human gene symbol Entrez gene ID

SwissProt

Unigene

Shelf life

Regulatory status

Antibody/conjugate formulation

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Immunogen	Recombinant full-length human CD59 protein		
Verified antibody	IHC (FFPE) (verified)		
Antibody target cellular	Plasma membrane		
localization Species reactivity	Human		
Antibody application notes	Higher concentration may be required for direct detection using primary antibody conjugates than for indirect detection with secondary antibody, Immunofluorescence: 0.5-1 ug/mL, Immunohistology formalin-fixed 1-2 ug/mL, Staining of formalin-fixed tissues is enhanced by boiling tissue sections in 10 mM citrate buffer, pH 6.0, for 10-20 min tollowed by cooling at RT for 20 minutes, Flow Cytometry 0.5-1 ug/million cells/0.1 mL, Optimal dilution for a specific application should be determined by user		
Positive control	Daudi, CEM, K562, HPB.ALL, Jurkat, Raji, and human lymphocytes. Tonsil, Cervix or Bladder.		
Shipping condition	Room temperature		
Storage Conditions	Store at 2 to 8 °C, Protect fluorescent conjugates from light, Note: store BSA-free antibodies at -10 to -35 °C		

recommended

Guaranteed for at least 24 months from date of receipt when stored as

Conjugates: 0.1 mg/mL in PBS/0.1% BSA/0.05% azide, HRP conjugates: 0.1 mg/mL in PBS/0.05% BSA, Purified: 0.2 mg/mL in PBS/0.05% BSA/0.05% azide,

Purified, BSA-free: 1 mg/mL in PBS

For research use only (RUO)

T cell activating protein

278573: 709466 & 710641

CD59

P13987

Antibody research areas Hematology, Immunology

Antibody # prefix BNC04	Conjugation CF®405S	Ex/Em (nm) 404/431	<b>Laser line</b> 405	<b>Detection channel</b> DAPI (microscopy), AF405	Dye Features <a href="#">CF®405S Features</a>
BNC88	CF®488A	490/515	488	GFP, FITC	CF®488A Features
BNC68	CF®568	562/583	532, 561	RFP, TRITC	CF®568 Features
BNC94	CF®594	593/614	561	Texas Red®	CF®594 Features
BNC40	CF®640R	642/662	633-640	Cy®5	CF®640R Features
BNC47	CF®647	650/665	633-640	Cy®5	CF®647 Features
BNCB	Biotin	N/A	N/A	N/A	
BNUB	Purified	N/A	N/A	N/A	
BNUM	Purified,	N/A	N/A	N/A	

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