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**Anti-Human CD59
Monoclonal Antibody**

Catalogue#	Format	Size	Concentration	Isotype Control
CL7673AP	Purified	100µg	1.0 mg/ml	CLCMG100
CL7673APC	APC	100µg	0.1mg/ml	CLCMG105
CL7673B	Biotin	100µg	0.1 mg/ml	CLCMG115
CL7673F	FITC	100µg	0.1 mg/ml	CLCMG101
CL7673PE	PE	50µg	0.1mg/ml	CLCMG104

Ig Class: Mouse IgG₁

DESCRIPTION:

CD59 (also known as HRF20, protectin) is a 20 kDa glycoprotein attached to the plasma membrane by a glycosylphosphatidylinositol (GPI) anchor. It blocks MAC formation in the complement pathway by interfering with C9 membrane insertion and polymerization, but it does not affect the generation of C3 and C5 activation products. CD59 is expressed on several cell types, including leukocytes, endothelial and epithelial cells, erythrocytes, and cells of the central nervous system. CD59 belongs to the Ly6 superfamily of proteins. This product is suitable for use in flow cytometry.

PRESENTATION:

Purified: Purified IgG buffered in PBS and 0.02% NaN₃. (Purified from ascitic fluid via Protein G Chromatography). For maximum recovery of contents, spin down tube before use.
APC, Biotin, FITC and PE: APC/Biotin/FITC/PE conjugated IgG buffered in PBS, 0.02% NaN₃ and EIA grade BSA as a stabilizing protein to bring total protein concentration to 4-5 mg/ml.

STORAGE/STABILITY:

For all formats, store at 4°C. DO NOT FREEZE **APC, PE** conjugates. For long term storage (**Purified, Biotin** and **FITC**), aliquot and freeze unused portion at -20°C in volumes appropriate for single usage. Avoid freeze/thaw cycles.

SPECIFICATIONS:

Clone: 1F5

Hybridoma Production:

Immunization: Immunogen: Neuraminidase-treated Human Erythrocytes (Neu-HuE)

Donor: Balb/c spleen

Fusion Partner: P3U- myeloma

Specificity: Human CD59

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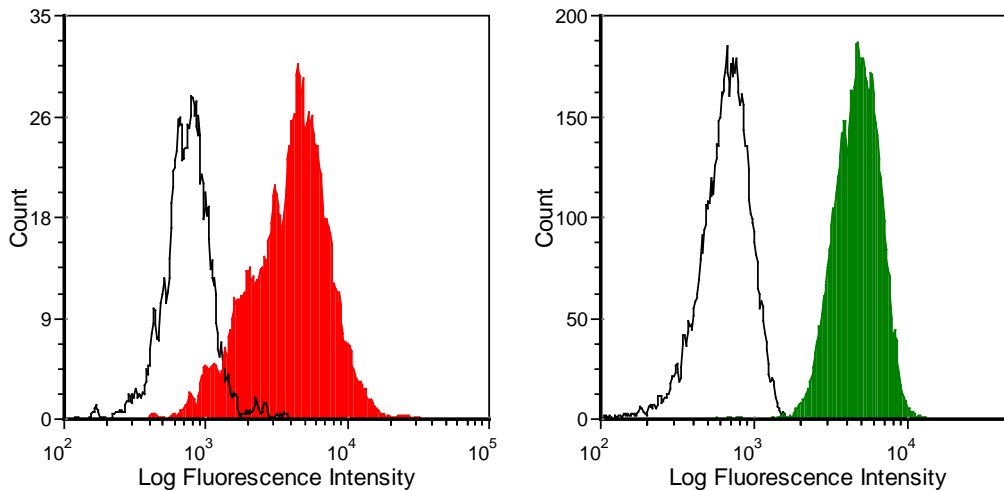
TEST RESULTS:

Tissue Distribution by Flow Cytometry Analysis:

Cell Concentration: 1×10^6 cells per test

Antibody Concentration Used: $1.0 \mu\text{g}/10^6$ cells

Cell Source: Lymphocytes 81.6%
RBC 100%



Human peripheral blood lymphocytes (left) or Red Blood Cells (right) were stained with anti-CD59 (clone: 1F5) (filled histogram) or Mouse IgG1 isotype control (open histogram).

N.B. Appropriate control samples should always be included in any labeling studies.

*** For optimal results in various applications, it is recommended that each investigator determine dilutions appropriate for individual use.**

REFERENCES:

- 1) Yu, J., *et al.* 1997. Mapping the active site of CD59. *J. Exp. Med.* **185** (4): 745-753.
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- 3) Zheng, H., *et al.* 1999. Targeting of functional antibody-CD59 fusion proteins to a cell surface. *J. Clin. Invest.* **103**: 55-61.
- 4) Okada, N., *et al.* 1989. Monoclonal antibodies capable of causing hemolysis of neuraminidase-treated human erythrocytes by homologous complement. *J. of Immunol.* **143** (7): 2262-2266.
- 5) Yu, J., *et al.* 1997. The affected gene underlying the class K glycosylphosphatidylinositol (GPI) surface protein defect codes for the GPI transamidase. *Proc. Natl. Acad. Sci.* **94**: 12580-12585.
- 6) Chen, R., *et al.* 2000. Impaired growth and elevated Fas receptor expression in *PIGA*⁺ stem cells in primary paroxysmal nocturnal hemoglobinuria. *J. Clin. Invest.* **106**: 689-696.

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