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Mouse Anti-CD59 Monoclonal Antibody

CLX63AP
CLX63B
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CLX63PE
CLX63APC

Clone: MEM-43

Isotype: Mouse IgG2a

Specificity:

The antibody MEM-43 reacts with well-defined epitope (W40, R-53) on CD59 (Protectin), an 18-20 kDa glycosylphosphatidylinositol (GPI)-anchored glycoprotein expressed on all hematopoietic cells; it is widely present on cells in all tissues.

HLDA IV; WS Code NL 705

HLDA V; WS Code AS S013

HLDA V; WS Code BP BP345

HLDA V; WS Code T T-103

Species Reactivity: Human

Application: Flow Cytometry; Immunohistochemistry (paraffin sections), Immunoprecipitation.

Conjugate Preparation:

The purified antibody is conjugated with Biotin-LC-NHS, Fluorescein isothiocyanate (FITC), R-Phycoerythrin (PE) or cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary.

Presentation:

Purified: 0.1 mg (1 mg/mL) purified IgG buffered in PBS with 15 mM sodium azide, approx. pH 7.4. (Purified from hybridoma culture supernatant by protein-A affinity chromatography).

Biotin: 0.1 mg (1 mg/mL) of Biotin conjugated IgG buffered in in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide.

FITC: 2 mL of FITC conjugated IgG buffered in in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. Sufficient for 100 tests.

PE: 2 mL of PE conjugated IgG buffered in in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. Sufficient for 100 tests.

APC: 1 mL of APC conjugated IgG buffered in in stabilizing phosphate buffered saline (PBS) solution containing 15mM sodium azide. Sufficient for 100 tests.

Continued Overleaf.....

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Storage / Stability:

Store in the dark at 2-8°C. Do not freeze all formats. Avoid prolonged exposure to light of conjugates. Do not use after expiration date stamped on vial label.

Usage:

Recommended dilutions for Flow Cytometry analysis of human blood cells using:

Purified: 1-2 µg/ml

Biotin: 5 µg/ml

FITC: 20 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension.

PE: 20 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension.

APC: 10 µl reagent / 100 µl of whole blood or 10⁶ cells in a suspension.

Recommended dilutions for Immunohistochemistry (paraffin sections) using:

Purified: 10 µg/ml

Background:

CD59 (Protectin) is a small (18-20 kDa) GPI-anchored ubiquitously expressed inhibitor of the membrane attack complex (MAC). It is thus the key regulator that preserves the autologous cells from terminal effector mechanism of the complement cascade. CD59 associates with C5b-8 complex and thereby counteracts appropriate formation of cytolytic pore within the plasma membrane. CD59 is also a low-affinity ligand of human CD2 and causes T cell co-stimulation.

References:

*Meri S, et al: Human protectin (CD59), an 18,000-20,000 MW complement lysis restricting factor, inhibits C5b-8 catalysed insertion of C9 into lipid bilayers. *Immunology*. 1990 Sep;71(1):1-9.

*Rooney IA, et al: The complement-inhibiting protein, protectin (CD59 antigen), is present and functionally active on glomerular epithelial cells. *Clin Exp Immunol*. 1991 Feb;83(2):251-6.

*Menu E, et al: CD59 costimulation of T cell activation. CD58 dependence and requirement for glycosylation. *J Immunol*. 1994 Sep 15;153(6):2444-56.

*Baalasubramanian S, et al: CD59a is the primary regulator of membrane attack complex assembly in the mouse. *J Immunol*. 2004 Sep 15;173(6):3684-92.

*Horejsi V, et al: Monoclonal antibodies against human leucocyte antigens. I. Antibodies against beta-2-microglobulin, immunoglobulin kappa light chains, HLA-DR-like antigens, T8 antigen, T1 antigen, a monocyte antigen, and a pan-leucocyte antigen. *Folia Biol (Praha)*. 1986;32(1):12-25. (original description of MEM-43 antigen) **IMPORTANT ARTICLE** *Robert Sutherland D, Keeney M, Illingworth A: Practical guidelines for the high-sensitivity detection and monitoring of paroxysmal nocturnal hemoglobinuria (PNH) clones by flow cytometry. *Cytometry B Clin Cytom*. 2012 Apr 12. doi: 10.1002/cyto.b.21023. [Epub ahead of print] Note: This article recommends PE-conjugated MEM-43 as a good reagent for red blood cell analysis of PNH (Paroxysmal Nocturnal Hemoglobinuria) by flow cytometry.

*Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).

*Leukocyte Typing V., Schlossman S. et al. (Eds.), Oxford University Press (1995).

*Forsberg UH, Bazil V, Stefanova I, Schroder J: Gene for human CD59 (likely Ly-6 homologue) is located on the short arm of chromosome 11. *Immunogenetics*. 1989;30(3):188-93.

*Stefanova I, et al: Characterization of a broadly expressed human leucocyte surface antigen MEM-43 anchored in membrane through phosphatidylinositol. *Mol Immunol*. 1989 Feb;26(2):153-61.

*Stefanova I, et al: GPI-anchored cell-surface molecules complexed to protein tyrosine kinases. *Science*. 1991 Nov 15;254(5034):1016-9.

*Cinek T, Horejsi V: The nature of large noncovalent complexes containing glycosyl-phosphatidylinositol-anchored membrane glycoproteins and protein tyrosine kinases. *J Immunol*. 1992 Oct 1;149(7):2262-70.

*Bodian DL, et al: Mutational analysis of the active site and antibody epitopes of the complement-inhibitory glycoprotein, CD59. *J Exp Med*. 1997 Feb 3;185(3):507-16. Cebecauer M, Cerny J, Horejsi V: Incorporation of leucocyte GPI-anchored proteins and protein tyrosine kinases into lipid-rich membrane domains of COS-7 cells. *Biochem Biophys Res Commun*. 1998 Feb 24;243(3):706-10.

*Ilangumaran S, Briol A, Hoessli DC: CD44 selectively associates with active Src family protein tyrosine kinases Lck and Fyn in glycosphingolipid plasma membrane domains of human peripheral blood lymphocytes. *Blood*. 1998 May 15;91(10):3901-8.

*Omidvar N, et al: Expression of glycosylphosphatidylinositol-anchored CD59 on target cells enhances human NK cell-mediated cytotoxicity. *J Immunol*. 2006 Mar 1;176(5):2915-23.

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