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Mouse Anti-CD59
Monoclonal Antibody

CLX63AP
CLX63B
CLX63F
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…..

In CANADA: Toll Free: 1-800-268-5058
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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 10^6 cells in a suspension.
PE: 20 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension.
APC: 10 µl reagent / 100 µl of whole blood or 10^6 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 an low-affinity ligand of human CD2 and causes T cell co-stimulation.

References:

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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.
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Laboratory Reagent For Research Use Only

JK 11/17/16