

Datasheet for ABIN125700
anti-CD59 antibody (APC)[Go to Product page](#)[2 Images](#)[3 Publications](#)

Overview

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|--------------|---|
| Quantity: | 100 tests |
| Target: | CD59 |
| Reactivity: | Human |
| Host: | Mouse |
| Clonality: | Monoclonal |
| Conjugate: | This CD59 antibody is conjugated to APC |
| Application: | Flow Cytometry (FACS) |

Product Details

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|-----------------------------|---|
| Immunogen: | Thymocytes and T lymphocytes |
| Clone: | MEM-43 |
| Isotype: | 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 the surface of all hematopoietic cells, it is widely present on cells in all tissues. This antibody does not compete with MEM-43/5, and has blocking activity. |
| Cross-Reactivity (Details): | Human |
| Purification: | Purified antibody is conjugated with activated allophycocyanin (APC) under optimum conditions and unconjugated antibody and free fluorochrome are removed by size-exclusion chromatography. |

Target Details

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|-------------------|---|
| Target: | CD59 |
| Alternative Name: | CD59 (CD59 Products) |
| Background: | CD59 Molecule,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 costimulation.,MACIF, MAC-IP, protectin, MIRL, HRF-20, HRF20, 1F5, MIN |
| Gene ID: | 966 |
| UniProt: | P13987 |
| Pathways: | Complement System |

Application Details

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|--------------------|---|
| Application Notes: | Flow cytometry: The reagent is designed for analysis of human blood cells using 10 µL reagent / 100 µL of whole blood or 10 ⁶ cells in a suspension. The content of a vial (1 ml) is sufficient for 100 tests. |
| Comment: | The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use. No reconstitution is necessary. |
| Restrictions: | For Research Use only |

Handling

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|--------------------|--|
| Reconstitution: | No reconstitution is necessary. |
| Buffer: | Stabilizing phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide |
| Preservative: | Sodium azide |
| Precaution of Use: | This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only. |
| Handling Advice: | Do not freeze. Avoid prolonged exposure to light. |
| Storage: | 4 °C |

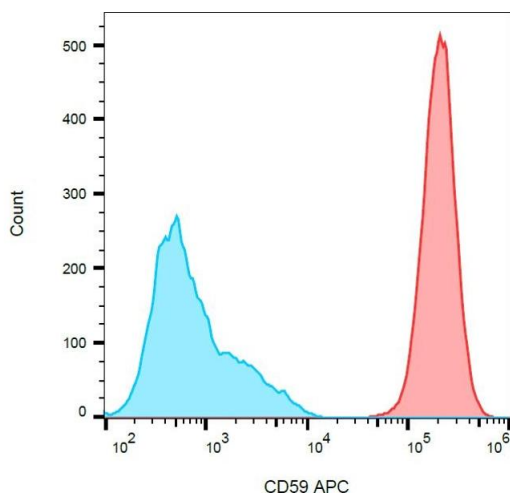
Handling

Storage Comment: Store at 2-8°C. Protect from prolonged exposure to light. Do not freeze.

Publications

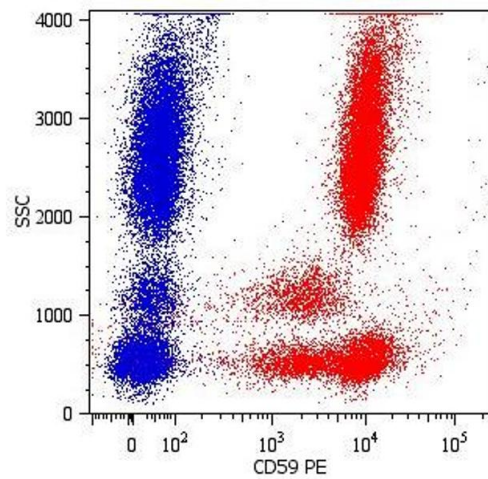
- Product cited in: Omidvar, Wang, Brennan, Longhi, Smith, Morgan: "Expression of glycosylphosphatidylinositol-anchored CD59 on target cells enhances human NK cell-mediated cytotoxicity." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 176, Issue 5, pp. 2915-23, (2006) ([PubMed](#)).
- Stefanová, Horejsí, Ansotegui, Knapp, Stockinger: "GPI-anchored cell-surface molecules complexed to protein tyrosine kinases." in: **Science (New York, N.Y.)**, Vol. 254, Issue 5034, pp. 1016-9, (1991) ([PubMed](#)).
- Forsberg, Bazil, Stefanová, Schröder: "Gene for human CD59 (likely Ly-6 homologue) is located on the short arm of chromosome 11." in: **Immunogenetics**, Vol. 30, Issue 3, pp. 188-93, (1989) ([PubMed](#)).

Images



Flow Cytometry

Image 1. Flow cytometry analysis (surface staining) of HL-60 (positive - red) and SP2 (negative - blue) cells with anti-human CD59 (MEM-43) APC.



Flow Cytometry

Image 2. Surface staining of human peripheral blood cells with anti-human CD59 (MEM-43) PE.