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Datasheet for ABIN94200
anti-CD59 antibody (Biotin)

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Overview

Quantity:	0.1 mg
Target:	CD59
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD59 antibody is conjugated to Biotin
Application:	Flow Cytometry (FACS), Immunoprecipitation (IP), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

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 biotin LC-NHS ester under optimum conditions and unconjugated antibody and free biotin are removed by size-exclusion chromatography.

Target Details

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

Application Notes:	Flow cytometry: Recommended dilution: 1-2 µg/mL.
Comment:	The purified antibody is conjugated with Biotin-LC-NHS under optimum conditions. The reagent is free of unconjugated biotin.
Restrictions:	For Research Use only

Handling

Concentration:	1 mg/mL
Buffer:	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
Storage Comment:	Store at 2-8°C. Do not freeze.

Publications

Product cited in:

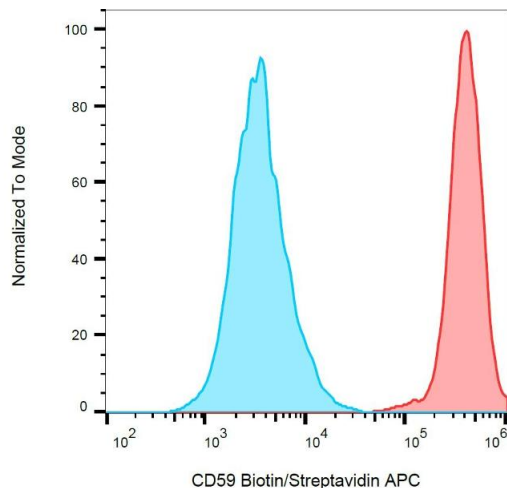
Omidvar, Wang, Brennan, Longhi, Smith, Morgan: "Expression of glycosylphosphatidylinositol-anchored CD59 on target cells enhances human NK cell-mediated cytotoxicity." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 176, Issue 5, pp. 2915-23, (2006) ([PubMed](#)).

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](#)).

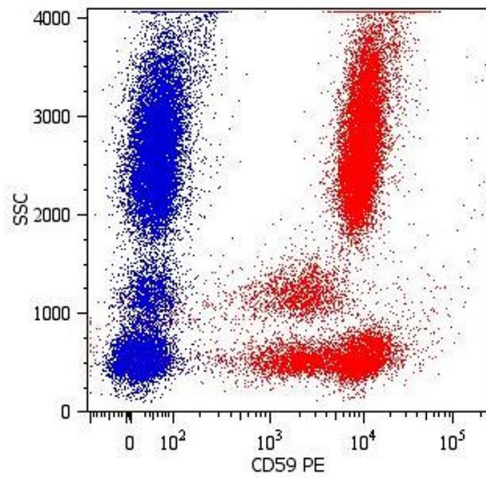
Stefanová, Hilgert, Kristofová, Brown, Low, Horejsí: "Characterization of a broadly expressed human leucocyte surface antigen MEM-43 anchored in membrane through phosphatidylinositol." in: **Molecular immunology**, Vol. 26, Issue 2, pp. 153-61, (1989) ([PubMed](#)).

Images



Flow Cytometry

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



Flow Cytometry

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