Datasheet for ABIN94199

anti-CD59 antibody

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Overview

Quantity:	0.1 mg
Target:	CD59
Reactivity:	Human
Host:	Mouse
Clonality:	Monoclonal
Conjugate:	This CD59 antibody is un-conjugated
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 by protein-A affinity chromatography.
Purity:	> 95 % (by SDS-PAGE)

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: 0.5-4 µg/mL. Immunohistochemistry (paraffin sections): Recommended dilution: 10 µg/mL, positive tissue: placenta.
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.**
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-

Publications

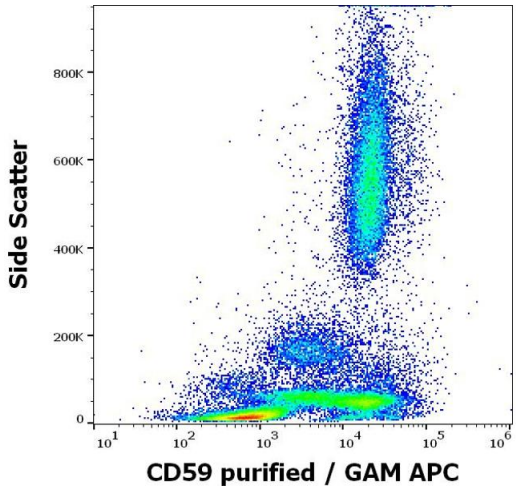
anchored CD59 on target cells enhances human NK cell-mediated cytotoxicity." in: **Journal of immunology (Baltimore, Md. : 1950)**, Vol. 176, Issue 5, pp. 2915-23, (2006) (PubMed).

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).

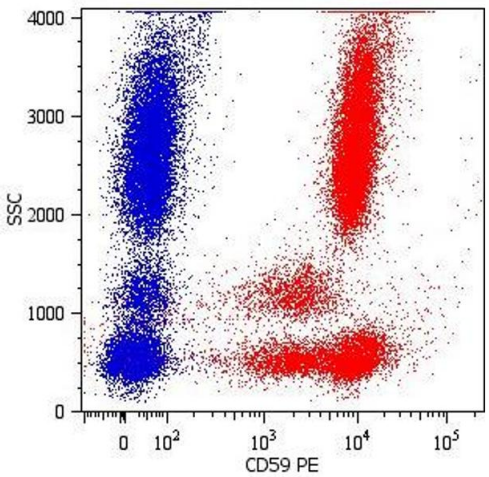
Stefanová, Hilgert, Kristofová, Brown, Low, Horejsí: "Characterization of a broadly expressed human leucocyte surface antigen MEM-43 anchored in membrane through phosphatidylinositol." in: **Molecular immunology**, Vol. 26, Issue 2, pp. 153-61, (1989) (PubMed).

Images



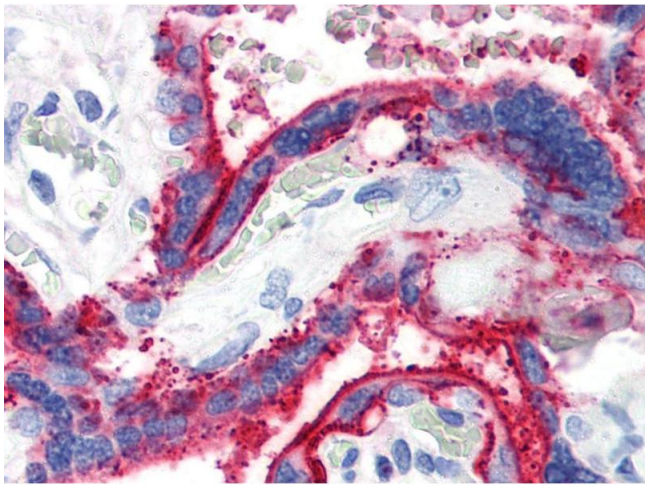
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD59 (MEM-43) purified antibody (concentration in sample 0.3 µg/mL, GAM APC).



Flow Cytometry

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



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry staining of human placenta (paraffin sections) using anti-CD59 (MEM-43).

Please check the product details page for more images. Overall 4 images are available for ABIN94199.

