Datasheet for ABIN94203

anti-CD59 antibody

4 Images | 3 Publications

Go to Product page

Overview

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

Product Details

Immunogen:	Thymocytes and T lymphocytes
Clone:	MEM-43-5
Isotype:	IgG2b
Specificity:	The antibody MEM-43/5 reacts with well defined epitope (around L33) on CD59 (Protectin), a 18-20 kDa glycosylphosphatidylinositol (GPI)-anchored extracellular glycoprotein expressed on the surface of all hematopoietic cells, it is widely present on cells in all tissues. The MEM-43/5 does not compete with most other CD59 antibodies.
Cross-Reactivity (Details):	Mouse, 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, positive control: blood. Immunohistochemistry (paraffin sections): Recommended dilution: 5 µg/mL. Western blotting: Recommended dilution: 1-2 µg/mL, positive control: mouse spleen, non-reducing conditions.
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

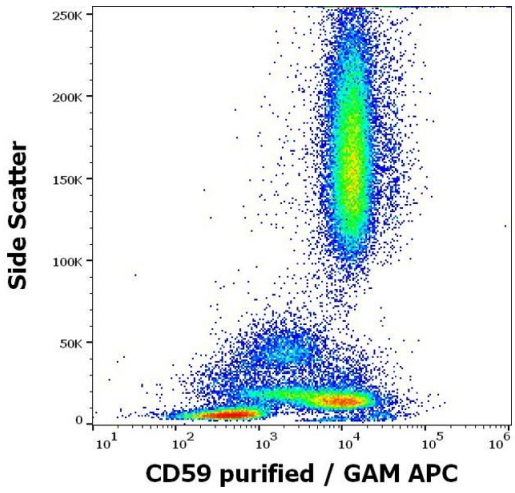
Product cited in:

Drbal, Moertelmaier, Holzhauser, Muhammad, Fuertbauer, Howorka, Hinterberger, Stockinger, Schütz: "Single-molecule microscopy reveals heterogeneous dynamics of lipid raft components upon TCR engagement." in: **International immunology**, Vol. 19, Issue 5, pp. 675-84, (2007) (PubMed).

Stulnig, Berger, Sigmund, Stockinger, Horejsí, Waldhäusl: "Signal transduction via glycosyl phosphatidylinositol-anchored proteins in T cells is inhibited by lowering cellular cholesterol." in: **The Journal of biological chemistry**, Vol. 272, Issue 31, pp. 19242-7, (1997) (PubMed).

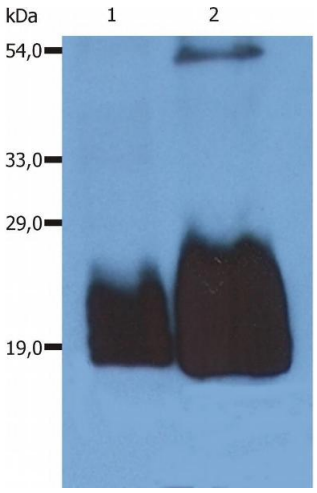
Bodian, Davis, Morgan, Rushmere: "Mutational analysis of the active site and antibody epitopes of the complement-inhibitory glycoprotein, CD59." in: **The Journal of experimental medicine**, Vol. 185, Issue 3, pp. 507-16, (1997) (PubMed).

Images



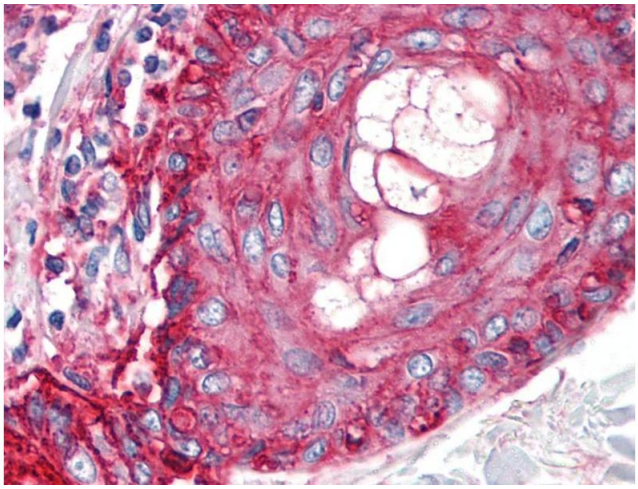
Flow Cytometry

Image 1. Flow cytometry surface staining pattern of human peripheral blood stained using anti-human CD59 (MEM-43/5) purified antibody (concentration in sample 0.6 µg/mL, GAM APC).



Western Blotting

Image 2. Western Blotting analysis (non-reducing conditions) of whole cell lysate of HPB-ALL human peripheral blood T cell leukemia cell line using anti-CD59 (MEM-43/5). Lane 1: original cell lysate Lane 2: material immunoprecipitated with anti-human CD59 (MEM-43



Immunohistochemistry (Paraffin-embedded Sections)

Image 3. Immunohistochemistry staining of human skin (paraffin sections) using anti-CD59 (MEM-43/5).

Please check the product details page for more images. Overall 4 images are available for ABIN94203.