

Anti-Hu CD59 Purified Monoclonal Antibody

Catalog Number: M00914-3

About CD59

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.

Overview

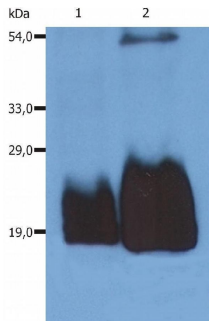
Product Name	Anti-Hu CD59 Purified Monoclonal Antibody
Reactive Species	Human, Mouse
Description	Boster Bio Anti-Hu CD59 Purified Monoclonal Antibody (Catalog# M00914-3). Tested in WB, Flow Cytometry, IP, IHC-P application(s). This antibody reacts with Mouse, Human.
Application	Flow Cytometry, IP, IHC-P, WB
Clonality	Monoclonal MEM-43/5
Formulation	Phosphate buffered saline (PBS), pH 7.4, 15 mM sodium azide
Storage Instructions	Store at 2-8°C. Do not freeze.
Host	Mouse
Uniprot ID	P13987

Technical Details

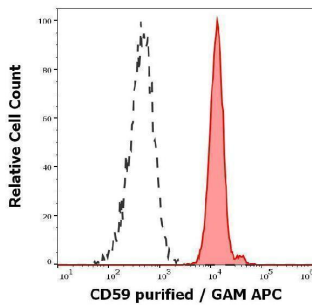
Immunogen	Thymocytes and T lymphocytes. The antibody MEM-43/5 reacts with well defined epitope (around L33) on CD59 (Protectin), a 18-20 kDa glycosylphosphatidylinositol (GPI)-anchored extracellular glycoprotein expressed on the surface of all hematopoietic cells; it is widely present on cells in all tissues. The MEM-43/5 does not compete with most other CD59 antibodies.
Predicted Reactive Species	Primate
Isotype	Mouse IgG2b
Form	Liquid
Concentration	1 mg/ml
Purification	Purified by protein-A affinity chromatography.
Suggested Dilutions	Flow cytometry: 0.5-4 ug/ml; positive control: blood. Immunohistochemistry (paraffin sections): 5 ug/ml.

Western blotting: 1-2 ug/ml; positive control: mouse spleen, non-reducing conditions.

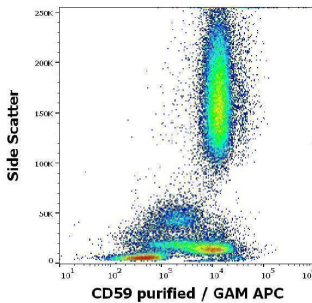
Anti-Hu CD59 Purified Monoclonal Antibody (M00914-3) Images



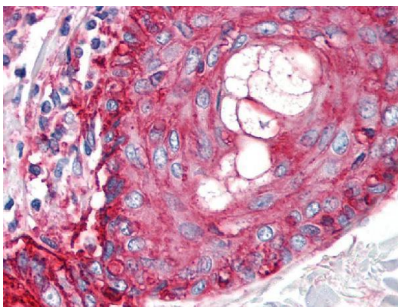
Western blotting analysis (non-reducing conditions) of whole cell lysate of HPB-ALL human peripheral blood T cell leukemia cell line using anti-CD59 (MEM-43/5). Lane 1: original cell lysate Lane 2: material immunoprecipitated with anti-human CD59 (MEM-43)



Separation of human neutrophil granulocytes (red-filled) from human CD59 negative blood debris (black-dashed) in flow cytometry analysis (surface staining) of human peripheral blood stained using anti-human CD59 (MEM-43/5) purified antibody (concentration in sample 0.6 µg/ml, GAM APC).



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).



Immunohistochemistry staining of human skin (paraffin sections) using anti-CD59 (MEM-43/5). Commercially tested by LifeSpan BioSciences.

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