

## 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	Dilute the sample so that the expected range of concentrations fall within the detection range of this kit.

If the expected range of concentration is unknown, a pilot test should be conducted to decide the optimal dilution ratio for your samples.  
Some PubMed article(s) citing the expression level of this target are as follows:  
Boster Bio's internal QC testing used:  
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

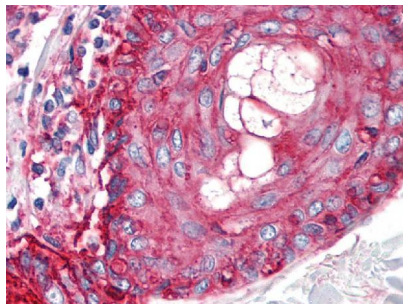


Figure 2. Immunohistochemistry validation of CD59 using Anti-Hu CD59 Purified Monoclonal Antibody (M00914-3).

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

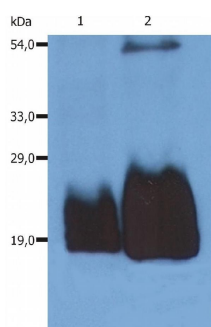


Figure 1. Western blotting validation for Anti-Hu CD59 Purified Monoclonal Antibody M00914-3

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; cat. no. 11-233-C100)

Electrophoresis was performed on a SDS-PAGE gel. To determine SDS-PAGE gel concentration

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