

Product datasheet for **SM3033P**

CD59 Mouse Monoclonal Antibody [Clone ID: MEM-43/5]

Product data:

Product Type:	Primary Antibodies
Clone Name:	MEM-43/5
Applications:	FC, IHC, IP, WB
Recommended Dilution:	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.
Reactivity:	Human, Mouse
Host:	Mouse
Isotype:	IgG2b
Clonality:	Monoclonal
Immunogen:	Thymocytes and T lymphocytes
Specificity:	The antibody reacts with well defined epitope (around L33) on CD59 (Protectin), a 18-20 kDa glycosylphosphatidylinositol (GPI)-anchored glycoprotein expressed on all hematopoietic cells; it is widely present on cells in all tissues. The antibody does not compete with most other CD59 antibodies.
Formulation:	Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4 State: Purified State: Liquid Ig fraction
Concentration:	lot specific
Purification:	Protein-A affinity chromatography; purity: > 95% (by SDS-PAGE)
Conjugation:	Unconjugated
Storage:	Store the antibody at 2 - 8 °C up to one month or (in aliquots) at -20 °C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
Gene Name:	CD59 molecule
Database Link:	Entrez Gene 966 Human P13987



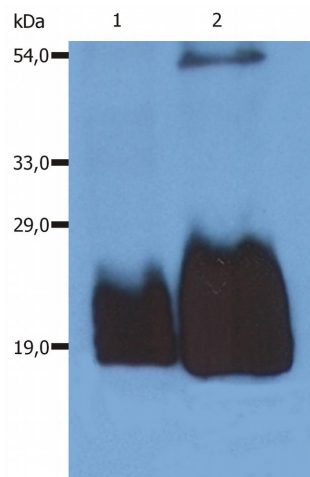
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Background:

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.

Synonyms:

MAC-inhibitory protein, Protectin, MEM43 antigen, MIC11, MIN1, MIN2, MIN3, MSK21, MACIF, MAC-IP, MIRL, HRF20, HRF-20

Product 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)