Monoclonal Antibody to CD59
Purified Antibody (0.1 mg)

Clone: MEM-43
Isotype: Mouse 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 all hematopoietic cells; it is widely present on cells in all tissues. This antibody does not compete with MEM-43/5.
HLDA IV; WS Code NL 705
HLDA V; WS Code AS S013
HLDA V; WS Code BP BP345
HLDA V; WS Code T T-103
Regulatory Status: RUO
Immunogen: Thymocytes and T lymphocytes
Species Reactivity: Human
Application: Flow Cytometry
Recommended dilution: 1-2 µg/ml
Immunoprecipitation
Immunohistochemistry (paraffin sections)
Recommended dilution: 10 µg/ml
Positive tissue: placenta
Functional Application
blocking
Purity: > 95% (by SDS-PAGE)
Purification: Purified by protein-A affinity chromatography
Concentration: 1 mg/ml
Storage Buffer: Phosphate buffered saline (PBS) with 15 mM sodium azide, approx. pH 7.4
Storage / Stability: Store at 2-8°C. Do not freeze. Do not use after expiration date stamped on vial label.
Expiration: See vial label
Lot Number: See vial label
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.
References:


*Leukocyte Typing IV., Knapp W. et al. (Eds.), Oxford University Press (1989).
*And many other.