

CD59 Monoclonal Antibody (MEM-43), Alexa Fluor™ 647

Catalog Number **MA5-18148**

Product data sheet

Details		Species Reactivity	
Size	100 Tests	Species reactivity	Human
Host/Isotope	Mouse / IgG2a	Tested Applications	
Class	Monoclonal	Flow Cytometry (Flow)	Dilution * 4 µL x 100 µL whole blood or 10 ⁶ cells
Type	Antibody	* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.	
Clone	MEM-43		
Immunogen	Thymocytes and T lymphocytes		
Conjugate	Alexa Fluor™ 647		
Form	Liquid		
Purification	Size-exclusion chromatography		
Storage buffer	PBS, pH 7.4, with 0.2% BSA		
Contains	15mM sodium azide		
Storage Conditions	4° C, store in dark, DO NOT FREEZE!		

Product specific information

The antibody MEM-43 reacts with well defined epitope (W40, R-53) on CD59.

Background/Target Information

CD59 (Protectin) is a small (18-20 kDa) GPI-anchored ubiquitously expressed inhibitor of the membrane attack complex (MAC). CD59 is the key regulator that preserves the autologous cells from terminal effector mechanism of the complement cascade. CD59 also associates with C5b-8 complex and counteracts appropriate formation of cytolytic pore within the plasma membrane. Further, CD59 is a low-affinity ligand of human CD2, causes T cell costimulation, and is involved in lymphocyte signal transduction. CD59 is a potent inhibitor of the complement membrane attack complex, whereby it binds complement C8 and/or C9 during the assembly of this complex, thereby inhibiting the incorporation of multiple copies of C9 into the complex, which is necessary for osmolytic pore formation. Mutations in this gene cause CD59 deficiency, a disease involving hemolytic anemia, thrombosis, and cerebral infarction. Multiple alternatively spliced transcript variants of CD59 have been identified.

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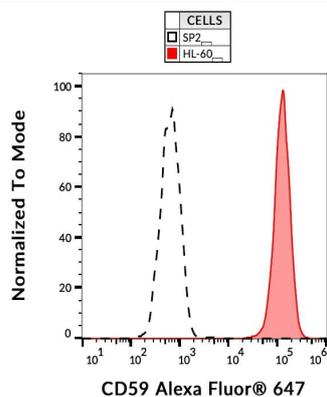
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CD59 Antibody (MA5-18148) in Flow

Flow cytometry analysis (surface staining) of HL-60 (positive) and SP2 (negative) cells with anti-human CD59 (MEM-43) Alexa Fluor® 647 Monoclonal antibody (Product # MA5-18148).



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