

## Product datasheet for **SM1145P**

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

#### Product data:

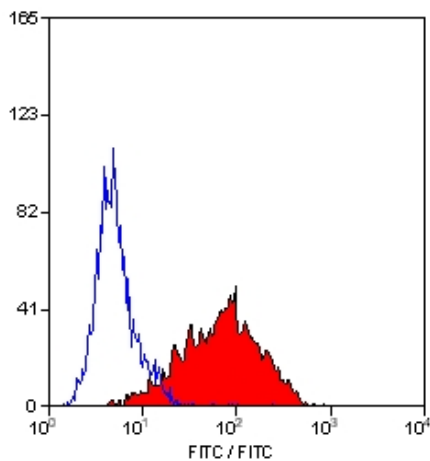
Product Type:	Primary Antibodies
Clone Name:	MEM-43
Applications:	EM, FC, FN, IF, IHC, WB
Recommended Dilution:	<b>ELISA.</b> <b>Immunoprecipitation.</b> <b>Immunoelectron Microscopy .</b> <b>Immunofluorescence.</b> <b>Western blot</b> (non-reducing conditions). <b>Flow Cytometry:</b> Use 10 µl of 1/5-1/10 diluted antibody to label 1 <sup>0</sup> cells in 100 µl. <b>Immunohistochemistry on Frozen and Paraffin Sections</b> (Requires antigen retrieval using heat treatment methods prior to staining of paraffin sections; Sodium citrate buffer pH6.0 is recommended for this purpose). <b>Positive Control:</b> Tonsil.
Reactivity:	Human
Host:	Mouse
Isotype:	IgG2a
Clonality:	Monoclonal
Immunogen:	Thymocytes and T lymphocytes
Specificity:	Reacts with a PI-linked glycoprotein, Mw 18-20kD found on all types of leucocytes including platelets. The antigen is expressed on many haemopoietic and non-haemopoietic cells. MEM-43 has been shown to stimulate NK activity. CD59 is expressed by erythrocytes and therefore staining in whole blood systems requires a high concentration of antibody. The epitope recognized by MEM-43 is lost after reduction, therefore, non-reducing conditions are required for western blotting techniques (2,5).
Formulation:	PBS with 0.09% Sodium Azide as preservative State: Purified State: Liquid purified IgG fraction.
Concentration:	lot specific
Purification:	Affinity Chromatography on Protein A.



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Conjugation:	Unconjugated
Storage:	Store undiluted at 2-8°C for one month or (in aliquots) at -20°C for longer. Should this product contain a precipitate we recommend microcentrifugation before use. Avoid repeated freezing and thawing.
Stability:	Shelf life: One year from despatch.
Gene Name:	CD59 molecule
Database Link:	<a href="#">Entrez Gene 966 Human P13987</a>
Background:	CD59, an LY6 like protein expressed in human lymphoid cells, regulates the action of the complement membrane attack complex on homologous cells. It is a potent inhibitor of the complement membrane attack complex action. It acts by binding to the C8 and/or C9 complements of the membrane attack complex, thereby preventing incorporation of the multiple copies of C9 required for complete formation of the osmolytic pore. This inhibitor appears to be species-specific. CD59 is also involved in signal transduction for T-cell activation complexed to a protein tyrosine kinase.
Synonyms:	MAC-inhibitory protein, Protectin, MEM43 antigen, MIC11, MIN1, MIN2, MIN3, MSK21, MACIF, MAC-IP, MIRL, HRF20, HRF-20

### Product images:



Staining of Human peripheral blood lymphocytes with Mouse anti Human CD59 antibody