abcam

ab180550

APC Anti-CD58 antibody [MEM-63]

Anti-CD58 antibody [MEM-63] conjugated to APC - suitable for flow cytometry, and reacts with human samples. Clone [MEM-63] is a mouse monoclonal antibody cited in 6 publications.

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Key facts

Isotype	IgG1
Host species	Mouse
Conjugation	APC
Excitation/Emission	Ex: 650nm, Em: 660nm
Storage buffer	pH: 8 Preservative: 0.097% Sodium azide Constituents: 99% Tris buffered saline, 0.2% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing CD58 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P19256
Clone number	MEM-63
Purification technique	Size-exclusion chromatography
Purification notes	The purified antibody is conjugated with cross-linked Allophycocyanin (APC) under optimum conditions. The conjugate is purified by size-exclusion chromatography and adjusted for direct use.

Reactivity data

Flow Cyt

Tested

Species	Human
Dilution info	10 µL for 10^6 Cells
Notes	or 100 µl of whole blood

Target data

See full target information CD58

Function	Ligand of the T-lymphocyte CD2 glycoprotein. This interaction is important in mediating thymocyte interactions with thymic epithelial cells, antigen-independent and -dependent interactions of T-lymphocytes with target cells and antigen-presenting cells and the T-lymphocyte rosetting with erythrocytes. In addition, the LFA-3/CD2 interaction may prime response by both the CD2+ and LFA-3+ cells.

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Supplementary info

This supplementary information is collated from multiple sources and compiled automatically.

Activity summary	CD58 also known as lymphocyte function-associated antigen 3 (LFA-3) is a glycoprotein with a molecular mass of approximately 60 kDa. It is present on the surface of various cell types including antigen-presenting cells epithelial cells and some other leukocytes. This protein serves as a ligand for CD2 which is expressed on T cells and natural killer cells. Through its interaction with CD2 CD58 mediates cell adhesion and plays a role in immunological synapse formation which is essential for effective immune responses.
Biological function summary	Lymphocyte function-associated antigen 3 acts as a significant participant in the immune system. It plays a role in T cell activation and facilitates interactions

	between T cells and antigen-presenting cells. CD58 forms part of a complex network of cell surface proteins that enhances immune surveillance and response. Its role highlights its importance in adaptive immunity by promoting cell-to-cell communication and activation.
Pathways	CD58 participates in the cell adhesion pathways. It interacts closely with CD2 which is involved in the activation and signaling of T cells. Through this interaction CD58 plays roles in pathways like T cell receptor signaling and immune response. It enhances cell-cell adhesion helping T cells maintain their position during immune surveillance and activation.
Associated diseases and disorders	CD58 relates to conditions such as autoimmune diseases and certain cancers. In autoimmune disorders aberrant expression or function of CD58 may contribute to inappropriate immune activation leading to tissue damage. In cancer CD58 alterations can affect tumor immune evasion influencing how the immune system recognizes and attacks cancer cells. In multiple sclerosis an autoimmune disease the interaction between CD58 and CD2 has been studied providing insights into its role in disease mechanisms.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

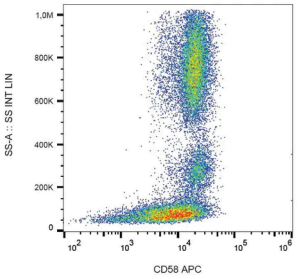
We do not recommend this combination. It is not covered by our product promise.

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1 product image



Flow Cytometry - APC Anti-CD58 antibody [MEM-63] (ab180550)

CD58 Flow Cytometry staining using mouse Anti-CD58 antibody

Flow Cytometry analysis of Human peripheral blood cells labeling CD58 with Anti-CD58 antibody [MEM-63] (Allophycocyanin) (ab180550).

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.