abcam

ab18272

FITC Anti-CD15 antibody [MEM-158]

Anti-CD15 antibody [MEM-158] conjugated to FITC - suitable for flow cytometry, and reacts with human samples. Clone [MEM-158] is a mouse monoclonal antibody cited in 2 publications.

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Key facts

Isotype	IgM
Host species	Mouse
Conjugation	FITC
Excitation/Emission	Ex: 495nm, Em: 519nm
Storage buffer	pH: 8 Preservative: 0.097% Sodium azide Constituents: BSA, PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing CD15 protein. The exact immunogen used to generate this antibody is proprietary information.
Clone number	MEM-158
Light chain type	kappa
Purification notes	Purified by precipitation and chromatography

Reactivity data

Flow Cyt

Tested

Species	Human

Dilution info	20 µL for 10^6 Cells
Notes	Use 20 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. ab91546 - Mouse monoclonal IgM, is suitable for use as an isotype control with this antibody.

Target data

See full target information CD15

Storage

Shipped at conditions	Blue Ice
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	+4°C

Supplementary info

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

Activity summary	CD15 also known as Lewis x or 3-fucosyl-N-acetyllactosamine is a carbohydrate antigen with a molecular mass typically not individually defined due to its nature as a glycan. CD15 is expressed on the surface of many human cells including neutrophils and various epithelial cells. It is commonly associated with granulocytes and is used as a cell surface marker. The presence of CD15 can be identified using CD15 antibodies through techniques such as CD15 flow cytometry and CD15 APC labeling.
Biological function summary	CD15 is important in cell-cell interaction mechanisms. It plays a role in mediating adhesion processes particularly in immune responses where it aids neutrophils in adhering to vascular endothelium and transmigrating to sites of infection or inflammation. As a glycoconjugate CD15 forms part of a larger glycoprotein complex on the cell surface interacting with other proteins to facilitate cellular responses and movement.
Pathways	CD15's function as an adhesion molecule ties into key cellular processes such as the selectin pathway. In this pathway it interacts with proteins like E-selectin and L-selectin contributing to leukocyte rolling and extravasation during the immune response. Additionally CD15 is implicated in the signaling pathways that mediate inflammatory responses where its role in neutrophil dynamics is important.
Associated diseases and disorders	CD15 has notable implications in Hodgkin's lymphoma and certain myeloid leukemias. It is frequently used as a diagnostic marker in these conditions where its overexpression or abnormal expression patterns may signify disease presence

or progression. CD15's interaction with other proteins such as CD30 in Hodgkin's lymphoma highlights its utility in understanding the pathological mechanisms and potential therapeutic targets of these disorders.

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

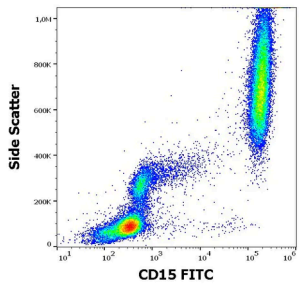
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In the unlikely event of one of our products not working as expected, you are covered by our product promise.

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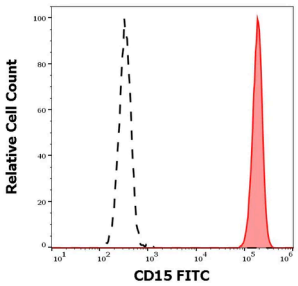
2 product images



Flow Cytometry - FITC Anti-CD15 antibody [MEM-158] (ab18272)

CD15 Flow Cytometry staining of Human peripheral blood using mouse Anti-CD15 antibody

Flow cytometry surface staining pattern of human peripheral whole blood stained using ab18272 (20 µl reagent / 100 µl of peripheral whole blood).



Flow Cytometry - FITC Anti-CD15 antibody [MEM-158] (ab18272)

CD15 Flow Cytometry staining of Human peripheral blood using mouse Anti-CD15 antibody

Separation of human neutrophil granulocytes (red-filled) from CD15 negative lymphocytes (black-dashed) in flow cytometry analysis (surface staining) of human peripheral whole blood stained using ab18272 (20 µl reagent / 100 µl of peripheral whole blood).

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