abcam

ab8219

Anti-CD63 antibody [MEM-259]

Anti-CD63 antibody [MEM-259] (ab8219) is a mouse monoclonal antibody detecting CD63 in **Flow Cytometry, IHC-P**. Suitable for **Human**.

- Over 100 publications
- Trusted since 2001

Key facts

Isotype	IgG1
Host species	Mouse
Storage buffer	pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS
Form	Liquid
Clonality	Monoclonal
Immunogen	Cell preparation containing CD63 protein. The exact immunogen used to generate this antibody is proprietary information. Database link P08962
Clone number	MEM-259
Purification technique	Affinity purification Protein A
Concentration	1 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC

Tested

Species	Human

Dilution info	-
Notes	-

Flow Cyt

Tested

Species	Human
Dilution info	2 µg/mL
Notes	Use at an assay dependant concentration. For detection of activated platelets, neutrophils and basophils. ab170190 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody.

WB

Not recommended

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Human
Dilution info	10 µg/mL
Notes	-

Target data

See full target information CD63

Function	Functions as a cell surface receptor for TIMP1 and plays a role in the activation of cellular signaling cascades. Plays a role in the activation of ITGB1 and integrin signaling, leading to the activation of AKT, FAK/PTK2 and MAP kinases. Promotes cell survival, reorganization of the actin cytoskeleton, cell adhesion, spreading and migration, via its role in the activation of AKT and FAK/PTK2. Plays a role in VEGFA signaling via its role in regulating the internalization of KDR/VEGFR2. Plays a role in intracellular vesicular transport processes, and is required for normal trafficking

	of the PMEL luminal domain that is essential for the development and maturation of melanocytes. Plays a role in the adhesion of leukocytes onto endothelial cells via its role in the regulation of SELP trafficking. May play a role in mast cell degranulation in response to Ms4a2/FceRI stimulation, but not in mast cell degranulation in response to other stimuli.

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

Notes

What is this antibody validated in?
Anti-CD63 antibody [MEM-259] (ab8219) is a mouse monoclonal antibody and is validated for use in Flow Cytometry (Flow Cyt), Immunohistochemistry (IHC-P) in Human samples.

Trusted by the scientific community
Anti-CD63 [MEM-259] (ab8219) was first used in a scientific publication in 2001 and has been cited over 100 times in peer-reviewed journals.

Reviewed by scientists
Anti-CD63 [MEM-259] (ab8219) has over 5 independent reviews from customers.

Other related products
We have a range of other formats of antibody clone [MEM-259] also available for your convenience: ab8219, FITC - ab18235, PE - ab18236, PerCP - ab77227, Biotin - ab134331, ab234251

Supplementary info

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

Activity summary	CD63 is a protein commonly known as LAMP-3 a member of the tetraspanin family with a molecular weight of approximately 25-65 kDa depending on post-

	translational modifications such as glycosylation. It resides mainly on the membrane of intracellular vesicles such as lysosomes and platelets. CD63 also appears on the surface of activated cells particularly in immune cells. Researchers often use CD63 as a marker in assays including CD63 western blot techniques due to its distinct expression patterns.
Biological function summary	CD63 participates in various cellular processes including membrane trafficking cell adhesion and signal transduction. It associates with integrins and other tetraspanins forming complexes that influence cellular adhesion and migration. Through its role in exosome formation CD63 contributes significantly to intercellular communication by facilitating the transfer of proteins lipids and RNA between cells.
Pathways	CD63 plays a role in pathways linked to cell proliferation and migration and immune response regulation. Within the integrin-mediated signaling pathway CD63 interacts with proteins such as integrins to promote cell adhesion and migration. CD63 also links to vesicle trafficking pathways collaborating with proteins involved in exocytosis and endocytosis which affect cell membrane restructuring and intracellular transport.
Associated diseases and disorders	CD63 shows connections with cancer and immune system disorders. Its role in promoting cell adhesion and migration links it with cancer metastasis including melanoma and breast cancer where CD63 expression levels often rise. Additionally CD63 associates with allergic reactions due to its involvement in histamine release where it impacts immune proteins like FcεRI which participate in allergy pathogenesis.

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

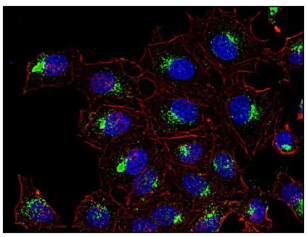
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

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

Full details and terms and conditions can be found here:
Terms & Conditions.

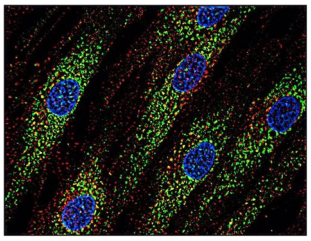
8 product images



Immunocytochemistry - Anti-CD63 antibody [MEM-259] (ab8219)

CD63 Immunocytochemistry staining using mouse Anti-CD63 antibody

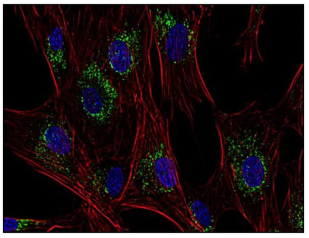
Immunocytochemistry staining of CD63 in human HeLa cell line using ab8219 (green). Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).



Immunocytochemistry - Anti-CD63 antibody [MEM-259] (ab8219)

CD63 Immunocytochemistry staining using mouse Anti-CD63 antibody

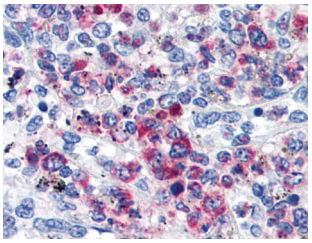
Immunocytochemistry staining of human skin fibroblasts with ab8219 (green) after co-incubation of living cells with human Transferrin - Dyomics 547 (red); cell nuclei stained with DAPI (blue).



Immunocytochemistry - Anti-CD63 antibody [MEM-259] (ab8219)

CD63 Immunocytochemistry staining using mouse Anti-CD63 antibody

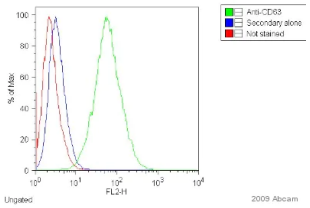
Immunocytochemistry staining of CD63 in human primary fibroblasts using ab8219 (green). Actin cytoskeleton was decorated by phalloidin (red) and cell nuclei stained with DAPI (blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD63 antibody [MEM-259] (ab8219)

CD63 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using mouse Anti-CD63 antibody

Immunohistochemistry staining of human spleen (paraffin sections) using ab8219.

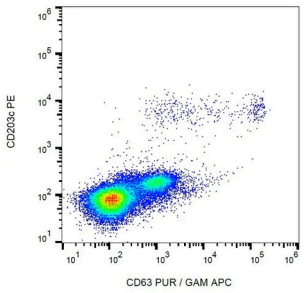


This image is courtesy of an anonymous customer review

Flow Cytometry - Anti-CD63 antibody [MEM-259] (ab8219)

CD63 Flow Cytometry staining using mouse Anti-CD63 antibody

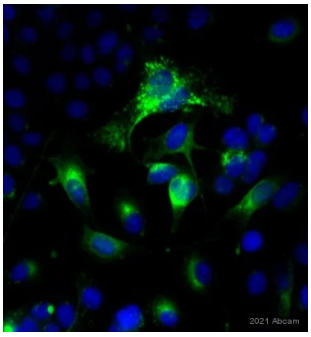
ab8219 staining CD63 in human Fibrosarcoma HT1080 cell line by flow cytometry. Cells were incubated with primary antibody for 1 hour. ab7003, a donkey polyclonal to mouse Ig, was used as the secondary antibody.



Flow Cytometry - Anti-CD63 antibody [MEM-259] (ab8219)

CD63 Flow Cytometry staining using mouse Anti-CD63 antibody

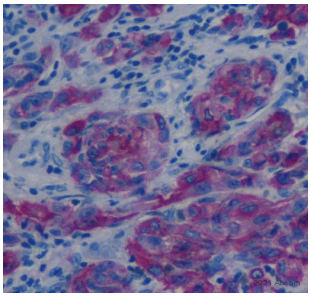
Flow cytometry analysis staining CD63 in IgE- activated peripheral blood using ab8219 (2µg/ml).



This image is courtesy of an anonymous customer review

Immunocytochemistry - Anti-CD63 antibody [MEM-259] (ab8219)

Immunocytochemistry analysis of acetone-fixed human melanoma cells staining with ab8219 at 1/500 dilution. Secondary antibody was FITC Anti mouse IgG at 1/200 dilution. Samples were incubated with the primary antibody PBS plus BSA for 1 hour. Blocking was done using 4% serum for 1 hour at room temperature.



This image is courtesy of an anonymous customer review

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-CD63 antibody [MEM-259] (ab8219)

Immunohistochemistry analysis (Formalin/PFA-fixed paraffin-embedded sections) of formaldehyde fixed human melanoma tissue. Stained with ab8219 at 1/500 dilution. Secondary antibody used was Alkaline phosphatase Anti mouse/rabbit kit. Blocking was done with 4% serum for 30 minutes at 21°C. The sample was incubated with the primary antibody and Dako antibody diluent for 1 hour at 21°C. Antigen retrieval method was heat mediated with EDTA

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