abcam

## ab77227

# PerCP Anti-CD63 antibody [MEM-259]

Anti-CD63 antibody [MEM-259] conjugated to PerCP - suitable for flow cytometry, and reacts with human samples. Clone [MEM-259] is a mouse monoclonal antibody cited in 29 publications.

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## Key facts

| | |
|---|---|
| **Isotype** | IgG1 |
| **Host species** | Mouse |
| **Conjugation** | PerCP |
| **Excitation/Emission** | Ex: 490nm, Em: 675nm |
| **Storage buffer** | pH: 7.4 Preservative: 0.097% Sodium azide Constituents: PBS, 0.2% BSA |
| **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** | Size-exclusion chromatography |
| **Specificity** | ab77227 reacts with CD63 expressed by granulocytes, platelets, T cells, monocytes/macrophages and endothelial cells. |
| **Purification notes** | The conjugate is purified by size-exclusion chromatography and adjusted for direct use. |

## Reactivity data

## Flow Cyt

**Tested**

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| **Species** | Human |
| **Dilution info** | 10 µL for $10^6$ Cells |
| **Notes** | Use 10 µl reagent / 100 µl of whole blood or 10^6 cells in a suspension. ab118658 - Mouse monoclonal IgG1, is suitable for use as an isotype control with this antibody. |

## Target data

See full target information CD63

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| **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

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

## Notes

The antibody is conjugated with Peridinin-chlorophyll-protein complex (PerCP) under optimum conditions.

## Supplementary info

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

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| **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**

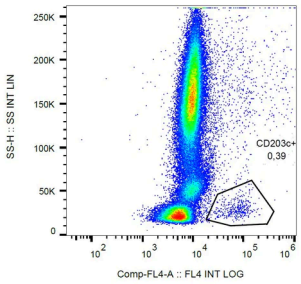
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## 1 product image




### Flow Cytometry - PerCP Anti-CD63 antibody [MEM-259] (ab77227)

CD63 Flow Cytometry staining of Human peripheral blood using mouse Anti-CD63 antibody

Flow cytometry analysis of IgE-activated peripheral blood stained using ab77227.

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