CD63 (MEM-259): sc-51662



The Power to Question

BACKGROUND

The tetraspanins are integral membrane proteins expressed on cell surface and granular membranes of hematopoietic cells and are components of multimolecular complexes with specific integrins. The tetraspanin CD63 (also known as LAMP-3, melanoma-associated antigen ME491, TSPAN30, MLA1 and OMA81H) is a lysosomal membrane glycoprotein that translocates to the plasma membrane after platelet activation. CD63 is expressed on activated platelets, monocytes and macrophages, and is weakly expressed on granulocytes, T cell and B cells. It is located on the basophilic granule membranes and on the plasma membranes of lymphocytes and granulocytes. CD63 is a member of the TM4 superfamily of leukocyte glycoproteins that includes CD9, CD37 and CD53, which contain four transmembrane regions. CD63 may play a role in phagocytic and intracellular lysosome-phagosome fusion events. CD63 deficiency is associated with Hermansky-Pudlak syndrome.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CD63 (human) mapping to 12q13.2.

SOURCE

CD63 (MEM-259) is a mouse monoclonal antibody raised against human T cell line HPB-ALL.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

PRODUCT

Each vial contains 100 $\mu g\ lgG_1$ in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

Available as phycoerythrin (sc-51662 PE) or fluorescein (sc-516662 FITC) conjugates for flow cytometry, 100 tests.

APPLICATIONS

CD63 (MEM-259) is recommended for detection of CD63 of human origin by Western Blotting (non-reducing)(starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g of total protein (1 ml of cell lysate)] , immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500), immunohistochemistry (including paraffin-embedded sections) (starting dilution 1:50, dilution range 1:50-1:500) and flow cytometry (1 μ g per 1 x 10^6 cells).

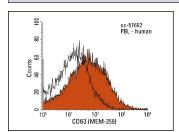
Suitable for use as control antibody for CD63 siRNA (h): sc-29391, CD63 shRNA Plasmid (h): sc-29391-SH and CD63 shRNA(h) Lentiviral Particles: sc-29391-V.

Molecular Weight of CD63: 53 kDa.

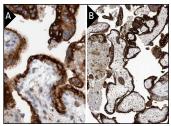
Positive Controls: T24 cell lysate: sc-2292, C32 whole cell lysate: sc-2205 or human placenta cell lysate.

Staining Systems.

DATA



CD63 (MEM-259): sc-51662. Indirect FCM analysis of human peripheral blood leukocytes stained with CD63 (MEM-259), followed by PE-conjugated goat anti-mouse Ig6₁: sc-3764. Black line histogram represents the isotype control, normal mouse Ig6₁: sc-3877.



CD63 (MEM-259): sc-51662. Immunoperoxidase staining of formalin fixed, paraffin-embedded human placenta showing cytoplasmic staining of Decidual and Trophoblastic cells at high (A) and low (B) magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com or our catalog for detailed protocols and support products.