CD63 (MX-49.129.5): sc-5275

**BACKGROUND**

The tetraspanins are integral membrane proteins expressed on cell surface and granular membranes of hematopoietic cells and are components of multimeric 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**


**CHROMOSOMAL LOCATION**

Genetic locus: CD63 (human) mapping to 12q13.2; CD63 (mouse) mapping to 10 D3.

**SOURCE**

CD63 (MX-49.129.5) is a mouse monoclonal antibody raised against full length CD63 of human origin.

**PRODUCT**

Each vial contains 200 µg IgG1 kappa light chain in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

CD63 (MX-49.129.5) is available conjugated to agarose (sc-5275 AC), fluorescein (sc-5275 FITC), Alexa Fluor® 488 (sc-5275 AF488), Alexa Fluor® 546 (sc-5275 AF546), Alexa Fluor® 594 (sc-5275 AF594) or Alexa Fluor® 647 (sc-5275 AF647), 200 µg/ml, for WB, HIC(P) and ELISA; to either phycoerythrin (sc-5275 PE), fluorescein (sc-5275 FITC), Alexa Fluor® 488 (sc-5275 AF488), Alexa Fluor® 546 (sc-5275 AF546), Alexa Fluor® 594 (sc-5275 AF594) or Alexa Fluor® 647 (sc-5275 AF647), 200 µg/ml, for WB (RGB), IF, HIC(P) and FCM; and to either Alexa Fluor® 680 (sc-5275 AF680) or Alexa Fluor® 790 (sc-5275 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, CD63 (MX-49.129.5) is available conjugated to either TRITC (sc-5275 TRITC, 200 µg/ml) or Alexa Fluor® 405 (sc-5275 AF405), 100 µg/2 ml, for IF, HIC(P) and FCM.

Alexa Fluor® is a trademark of Molecular Probes, Inc., Oregon, USA.

**STORAGE**

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

**APPLICATIONS**

CD63 (MX-49.129.5) is recommended for detection of CD63 of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 µg per 100-500 µg 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), flow cytometry (1 µg per 1 x 10⁶ cells) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of CD63 core protein: 26 kDa.

Molecular Weight of glycosylated CD63: 30-60 kDa.

Positive Controls: T24 cell lysate: sc-2292, SK-MEL-28 cell lysate: sc-2236 or CCD-1064Sk cell lysate: sc-2263.

**DATA**

Select Product Citations


**RESEARCH USE**

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