

CD81 (2F7): sc-19676

BACKGROUND

CD81, also called TAPA-1, is a 22-26 kDa type III transmembrane protein that is broadly expressed on cells of hematopoietic, neuroectodermal and mesenchymal origin. CD81 is believed to be involved in both cell growth and signal transduction. It can be present as a multimolecular complex in association with CD37 and/or CD53, or on the surface of B cells in association with CD19, CD21 and/or MHC class II antigens.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: CD81 (human) mapping to 11p15.5; Cd81 (mouse) mapping to 7 69.3 cM (7 F5).

SOURCE

CD81 (2F7) is a Armenian hamster monoclonal antibody raised against mouse epithelial cell line PAM212.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Available as phycoerythrin (sc-19676 PE) or fluorescein (sc-19676 FITC) conjugates for flow cytometry, 100 tests.

Available azide-free for biological studies, sc-19676 L, 200 μ g/0.1 ml.

STORAGE

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

APPLICATIONS

CD81 (2F7) is recommended for detection of CD81 of mouse origin by 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) and flow cytometry (1 μ g per 1×10^6 cells).

Suitable for use as control antibody for CD81 siRNA (m): sc-37251, CD81 shRNA Plasmid (m): sc-37251-SH and CD81 shRNA (m) Lentiviral Particles: sc-37251-V.

Molecular Weight of CD81: 22-26 kDa.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/ 2.0 ml). 2) Immunofluorescence: use goat anti-Armenian hamster IgG-FITC: sc-2446 (dilution range: 1:100-1:400) or goat anti-Armenian hamster IgG-TR: sc-2997 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

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.