CD81 (1.3.3.22): sc-7637

**BACKGROUND**

CD81, also called TAPA-1, is a type II 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. CD81 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.

**CHROMOSOMAL LOCATION**

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

**SOURCE**

CD81 (1.3.3.22) is a mouse monoclonal antibody raised against human B cell line from Burkitt lymphoma.

**PRODUCT**

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

CD81 (1.3.3.22) is available conjugated to either phycoerythrin (sc-7637 PE), fluorescein (sc-7637 FITC), Alexa Fluor® 488 (sc-7637 AF488), Alexa Fluor® 546 (sc-7637 AF546), Alexa Fluor® 594 (sc-7637 AF594) or Alexa Fluor® 647 (sc-7637 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-7637 AF680) or Alexa Fluor® 790 (sc-7637 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

In addition, CD81 (1.3.3.22) is available conjugated to Alexa Fluor® 405 (sc-7637 AF405, 200 µg/ml), for IF, IHC(P) and FCM.

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

**APPLICATIONS**

CD81 (1.3.3.22) is recommended for detection of CD81 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) and flow cytometry (1 µg per 1 x 10⁶ cells).


Molecular Weight of CD81: 22-26 kDa.

Positive Controls: Daudi cell lysate: sc-2415, Raji whole cell lysate: sc-364236 or Ramos cell lysate: sc-2216.

**STORAGE**

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

**RESEARCH USE**

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

**DATA**

![Western blot of CD81](image.png)

**SELECT PRODUCT CITATIONS**


**PROTOCOLS**

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