CD81 (B-11): sc-166029

BACKGROUND
CD81, also called TAPA-1, is a 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.

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

SOURCE
CD81 (B-11) is a mouse monoclonal antibody raised against amino acids 90-210 of CD81 of human origin.

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

CD81 (B-11) is available conjugated to agarose (sc-166029 AC), 500 µg/mL, for IP; to HRP (sc-166029 HRPI), 200 µg/mL, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-166029 PE), fluorescein (sc-166029 FITC), Alexa Fluor® 488 (sc-166029 AF488), Alexa Fluor® 546 (sc-166029 AF546), Alexa Fluor® 594 (sc-166029 AF594) or Alexa Fluor® 647 (sc-166029 AF647), 200 µg/mL, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-166029 AF680) or Alexa Fluor® 790 (sc-166029 AF790), 200 µg/mL, for Near-Infrared (NIR) WB, IF and FCM.

APPLICATIONS
CD81 (B-11) is recommended for detection of CD81 of mouse, rat and human origin by Western Blotting (starting dilution 1:100, 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 solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).


Molecular Weight of CD81: 22-26 kDa.

Positive Controls: Jurkat whole cell lysate: sc-2204, Ramos cell lysate: sc-2216 or MM-142 cell lysate: sc-2246.

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

SELECT PRODUCT CITATIONS

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