**BACKGROUND**

Protein recognition at the interface of a T cell and an antigen-presenting cell (APC) is a key factor in T cell activation. MHC class II molecules (MHC-II) are heterodimeric proteins involved with antigen presentation to CD4+ T cells. Human CDw78 is a cell surface molecule found on mature and immature B cells that may define a conformation of MHC-II bound to peptides that are obtained through trafficking to lysosomal antigen-processing compartments. Expression of CDw78 requires coexpression of MHC-II as well as its chaperone chain. Antibodies recognizing CDw78 may be useful research tools in targeting aggregated fractions of MHC-II which are very important in signaling and antigen-presenting properties. CDw78 is expressed in some acute lymphoblastic leukemias, B cell lymphomas and a few acute nonlymphocytic leukemias.

**REFERENCES**


**SOURCE**

CDw78 (DF1588) is a mouse monoclonal antibody raised against leukocytes of human origin.

**PRODUCT**

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

CDw78 (DF1588) is available conjugated to agarose (sc-66182 AC), 500 µg/0.25 ml agarose in 1 ml, for IP; to HRP (sc-66182 HRP), 200 µg/ml, for WB, IHC(P) and ELISA; to either phycoerythrin (sc-66182 FITC), Alexa Fluor® 488 (sc-66182 AF488), Alexa Fluor® 546 (sc-66182 AF546), Alexa Fluor® 594 (sc-66182 AF594) or Alexa Fluor® 647 (sc-66182 AF647), 200 µg/ml, for WB (RGB), IF, IHC(P) and FCM; and to either Alexa Fluor® 680 (sc-66182 AF680) or Alexa Fluor® 790 (sc-66182 AF790), 200 µg/ml, for Near-Infrared (NIR) WB, IF and FCM.

**APPLICATIONS**

CDw78 (DF1588) is recommended for detection of CDw78-antigen expressed on human B lymphocytes of human origin by 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) and flow cytometry (1 µg per 1 x 10^6 cells).

**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.

**PROTOCOLS**

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