

CD79B (FL-229): sc-25605

BACKGROUND

CD79 (also designated Ig α /Ig β) is a heterodimer composed of α and β chains, CD79A (also designated MB-1) and CD79B (also designated B29), respectively. The B cell antigen receptor complex (BCR) is formed by the association of CD79 with a membrane immunoglobulin, such as IgM or IgD. The membrane immunoglobulins IgM and IgD achieve surface expression and antigen presentation function in response to CD79 association. The cytoplasmic tails of both CD79A and CD79B contain an ITAM motif (immunoreceptor tyrosine-based activation motif), which acts to initiate the BCR signaling reactions by binding to and activating tyrosine kinases.

REFERENCES

1. Ha, H.J., et al. 1992. Molecular cloning and expression pattern of a human gene homologous to the murine MB-1 gene. *J. Immunol.* 148: 1526-1531.
2. Wood, W.J., Jr., et al. 1993. Isolation and chromosomal mapping of the human immunoglobulin-associated B29 gene (IGB). *Genomics* 16: 187-192.
3. Cassard, S., et al. 1996. Regulation of ITAM signaling by specific sequences in Ig β B cell antigen receptor subunit. *J. Biol. Chem.* 271: 23786-23791.
4. Macardle, P.J., et al. 1997. The antigen receptor complex on cord B lymphocytes. *Immunology* 90: 376-382.

CHROMOSOMAL LOCATION

Genetic locus: CD79B (human) mapping to 17q23.3; Cd79b (mouse) mapping to 11 E1.

SOURCE

CD79B (FL-229) is a rabbit polyclonal antibody raised against amino acids 1-229 representing full length CD79B of human origin.

PRODUCT

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

APPLICATIONS

CD79B (FL-229) is recommended for detection of CD79B of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), 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), 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).

Suitable for use as control antibody for CD79B siRNA (h): sc-35027, CD79B siRNA (m): sc-42807, CD79B shRNA Plasmid (h): sc-35027-SH, CD79B shRNA Plasmid (m): sc-42807-SH, CD79B shRNA (h) Lentiviral Particles: sc-35027-V and CD79B shRNA (m) Lentiviral Particles: sc-42807-V.

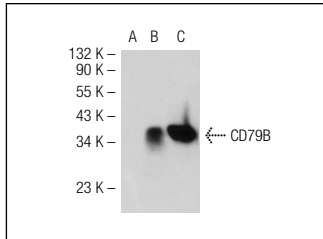
Molecular Weight of CD79B: 39 kDa.

Positive Controls: Raji whole cell lysate: sc-364236, Daudi cell lysate: sc-2415 or CD79B (h2): 293T Lysate: sc-115257.

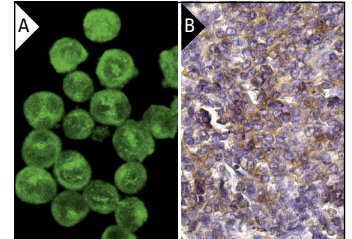
STORAGE

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

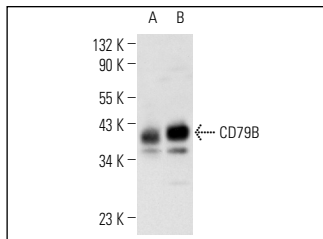
DATA



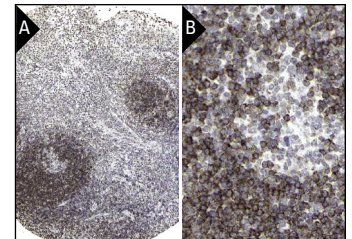
CD79B (FL-229): sc-25605. Western blot analysis of CD79B expression in non-transfected 293T: sc-117752 (A), human CD79B transfected 293T: sc-115257 (B) and Raji (C) whole cell lysates.



CD79B (FL-229): sc-25605. Immunofluorescence staining of methanol-fixed Ramos cells showing membrane localization (A). Immunoperoxidase staining of formalin fixed, paraffin-embedded human spleen tissue showing cytoplasmic staining of cells in white pulp (B).



CD79B (FL-229): sc-25605. Western blot analysis of CD79B expression in GA-10 (A) and Daudi (B) whole cell lysates.



CD79B (FL-229): sc-25605. Immunoperoxidase staining of formalin fixed, paraffin-embedded human malignant lymphoma tissue showing membrane staining of tumor cells at low (A) and high (B) magnification. Kindly provided by The Swedish Human Protein Atlas (HPA) program.

SELECT PRODUCT CITATIONS

1. Maus, M., et al. 2009. GRB2 associated binder 2 couples B-cell receptor to cell survival. *Cell. Signal.* 21: 220-227.
2. Ouchida, R., et al. 2010. A role for lysosomal-associated protein transmembrane 5 in the negative regulation of surface B cell receptor levels and B cell activation. *J. Immunol.* 185: 294-301.
3. Huang, X., et al. 2011. Downregulation of the B-cell receptor signaling component CD79b in plasma cell myeloma: a possible post transcriptional regulation. *Pathol. Int.* 61: 122-129.

RESEARCH USE

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


 MONOS
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Try **CD79B (B29/123): sc-53210** or **CD79B (H-3): sc-373843**, our highly recommended monoclonal alternatives to CD79B (FL-229).