

CD79B (C-19): sc-8505

BACKGROUND

CD79 (also designated Ig α /Ig β) is a heterodimer composed of α chains, designated CD79A or MB-1, and β chains, designated CD79B or B29. 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 (immuno-receptor tyrosine-based activation) motif, which acts to initiate the Bcr signaling reactions by binding to and activating tyrosine kinases.

REFERENCES

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4. 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.
5. Mason, D.Y., et al. 1992. The B29 and mb-1 polypeptides are differentially expressed during human B cell differentiation. *Eur. J. Immunol.* 22: 2753-2756.
6. Jones, M., et al. 1993. Detection of T and B cells in many animal species using cross-reactive anti-peptide antibodies. *J. Immunol.* 150: 5429-5435.
7. Wood, W.J., Jr., et al. 1993. Isolation and chromosomal mapping of the human immunoglobulin-associated B29 gene (IGB). *Genomics* 16: 187-192.
8. Mason, D.Y., et al. 1995. CD79A: a novel marker for B cell neoplasms in routinely processed tissue samples. *Blood* 86: 1453-1459.
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CHROMOSOMAL LOCATION

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

SOURCE

CD79B (C-19) is an affinity purified goat polyclonal antibody raised against a peptide mapping at the C-terminus of 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.

Blocking peptide available for competition studies, sc-8505 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

CD79B (C-19) 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) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

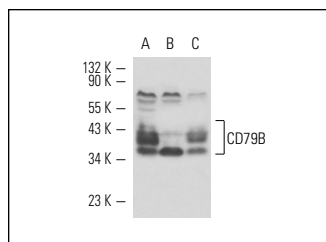
CD79B (C-19) is also recommended for detection of CD79B in additional species, including canine, bovine and porcine.

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

DATA



CD79B (C-19): sc-8505. Western blot analysis of CD79B expression in Ramos (A), Raji (B) and Daudi (C) whole cell lysates.

SELECT PRODUCT CITATIONS

1. Chen, L., et al. 2002. Expression of ZAP-70 is associated with increased B-cell receptor signaling in chronic lymphocytic leukemia. *Blood* 100: 4609-4614.

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.



Try **CD79B (B29/123): sc-53210** or **CD79B (H-3): sc-373843**, our highly recommended monoclonal alternatives to CD79B (C-19).