# CD79B (AT105-1): sc-59114



The Power to Question

# **BACKGROUND**

CD79 (also designated Ig  $\alpha/\text{Ig}$   $\beta$ ) is a heterodimer composed of  $\alpha$  chains, designated CD79A or MB-1, and  $\beta$  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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- 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.

# SOURCE

CD79B (AT105-1) is a mouse monoclonal antibody raised against an extracellular domain of CD79B of human origin.

### **PRODUCT**

Each vial contains 200  $\mu g \; lgG_1$  kappa light chain in 1.0 ml of PBS with <0.1% sodium azide and 0.1% gelatin.

CD79B (AT105-1) is available conjugated to either phycoerythrin (sc-59114 PE) or fluorescein (sc-59114 FITC), 200  $\mu$ g/ml, for IF, IHC(P) and FCM.

#### **APPLICATIONS**

CD79B (AT105-1) is recommended for detection of CD79B of 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)] and flow cytometry (1 µg per 1 x 10<sup>6</sup> cells).

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

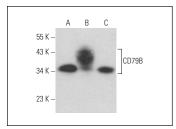
Molecular Weight of CD79B: 39 kDa.

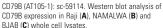
Positive Controls: BJAB whole cell lysate: sc-2207, Raji whole cell lysate: sc-364236 or CD79B (h2): 293T Lysate: sc-115257.

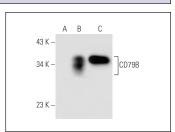
#### **RECOMMENDED SUPPORT REAGENTS**

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG $\kappa$  BP-HRP: sc-516102 or m-lgG $\kappa$  BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz Marker<sup>TM</sup> Molecular Weight Standards: sc-2035, UltraCruz<sup>®</sup> Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml).

#### **DATA**







CD79B (AT105-1): sc-59114. 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.

# **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.

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