



Orders: 877-616-CELL (2355)
orders@cellsignal.com

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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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CD79A Antibody

For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: W	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 45-55	Source/Isotype: Rabbit	UniProt ID: #P11912	Entrez-Gene Id: 973
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Product Usage Information

Application

Western Blotting

Dilution

1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at -20°C. Do not aliquot the antibody.

Specificity/Sensitivity

CD79A Antibody detects endogenous levels of total CD79A protein.

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Asn217 of human CD79A. Antibodies are purified by peptide affinity chromatography

Background

Antigen receptors found on the surface of B cells contain a heterodimeric signaling component composed of CD79A and CD79B, also known as Ig α and Ig β , respectively (1,2). Presence of this receptor complex is essential for B cell development and function (3). Together these two proteins and the associated B cell receptor (BCR) initiate intracellular signaling following antigen binding (4,5). An immunoreceptor tyrosine-based activation motif (ITAM) found in the CD79A intracellular region appears to be important for its function (6). Antigen binding precedes formation of the CD79A and CD79B heterodimer and subsequent activation of receptor associated kinases (7). Research has shown that CD79A is a marker for B-lineage lymphoblastic leukemia (8). Additionally, investigators have found that mutations in the *CD79A (MB1)* gene are associated with abnormally low levels of functional B cell receptors in some cases of chronic B cell lymphocytic leukemia (9).

Background References

1. van Noesel, C.J. et al. (1991) *J Immunol* 146, 3881-8.
2. Minegishi, Y. et al. (1999) *J Clin Invest* 104, 1115-21.
3. Yu, L.M. and Chang, T.W. (1992) *J Immunol* 148, 633-7.
4. Storch, B. et al. (2007) *Eur J Immunol* 37, 252-60.
5. Mason, D.Y. et al. (1995) *Blood* 86, 1453-9.
6. Luisiri, P. et al. (1996) *J Biol Chem* 271, 5158-63.
7. Pike, K.A. et al. (2004) *J Immunol* 172, 2210-8.
8. Astsaturov, I.A. et al. (1996) *Leukemia* 10, 769-73.
9. Vuillier, F. et al. (2005) *Blood* 105, 2933-40.

Species Reactivity

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

Applications Key

W: Western Blotting

Cross-Reactivity Key

H: Human

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