

Store at
-20°C

#96024

CD79B (D7V2F) Rabbit mAb



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

Support: 877-678-TECH (8324)

Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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

Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W, IP, IHC-Bond, IHC-P, IF-IC	H M	Endogenous	14, 30-50	Rabbit IgG	#P40259	974

Product Usage Information

Application

Western Blotting
Immunoprecipitation
IHC Leica Bond
Immunohistochemistry (Paraffin)
Immunofluorescence (Immunocytochemistry)

Dilution

1:1000
1:50
1:100
1:250
1:500

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20°C. Do not aliquot the antibody.

For a carrier free (BSA and azide free) version of this product see product #59728.

Specificity/Sensitivity

CD79B (D7V2F) Rabbit mAb recognizes endogenous levels of total CD79B protein. This antibody is predicted to detect multiple isoforms of CD79B.

Species predicted to react based on 100% sequence homology

Rat, Hamster, Bovine, Pig

Source / Purification

Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Val222 of human CD79B protein.

Background

The B cell antigen receptor (BCR) is composed of membrane immunoglobulin molecules non-covalently associated with the heterodimeric signaling component, CD79A and CD79B (also known as Igα and Igβ, respectively) (1,2). The presence of this receptor complex is essential for B cell development and function (3). Following antigen binding, CD79A/CD79B heterodimers are phosphorylated and initiate intracellular signaling through Src family kinases, Lyn, Blk, and Fyn, as well as Syk and Btk tyrosine kinases (4,5). The complexity of BCR signaling results in a variety of distinct cellular functions, such as proliferation, tolerance, apoptosis, and differentiation (6). BCR-antigen ligation also leads to internalization of the complex, trafficking to late endosomes, and antigen presentation in major histocompatibility molecules on the B cell surface (7,8). CD79B enhances the phosphorylation of CD79A (9). Alternatively spliced transcript variants encoding different isoforms of CD79B have been identified (10). CD79B is widely expressed on B cell malignancies and may serve as a target for therapeutic intervention (11,12).

Background References

1. Mason, D.Y. et al. (1995) *Blood* 86, 1453-9.
2. Storch, B. et al. (2007) *Eur J Immunol* 37, 252-60.
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4. Reth, M. and Wienands, J. (1997) *Annu Rev Immunol* 15, 453-79.
5. Kurosaki, T. and Kurosaki, M. (1997) *J Biol Chem* 272, 15595-8.
6. Dal Porto, J.M. et al. (2004) *Mol Immunol* 41, 599-613.
7. Minegishi, Y. et al. (1999) *J Clin Invest* 104, 1115-21.
8. van Noesel, C.J. et al. (1991) *J Immunol* 146, 3881-8.
9. Luisiri, P. et al. (1996) *J Biol Chem* 271, 5158-63.
10. Hashimoto, S. et al. (1995) *Mol Immunol* 32, 651-9.
11. Dornan, D. et al. (2009) *Blood* 114, 2721-9.
12. Pfeifer, M. et al. (2015) *Leukemia* 29, 1578-86.

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 **IP:** Immunoprecipitation **IHC-Bond:** IHC Leica Bond **IHC-P:** Immunohistochemistry (Paraffin) **IF-IC:** Immunofluorescence (Immunocytochemistry)

Cross-Reactivity Key

H: Human **M:** Mouse

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