

#96024 Store at -20C

CD79B (D7V2F) Rabbit mAb



Cell Signaling
TECHNOLOGY®

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:
WB, IP, IHC-Bond, IHC-P	H M	Endogenous	14, 30-50	Rabbit IgG	#P40259	974

Product Usage Information

Application

Western Blotting
Immunoprecipitation
IHC Leica Bond
Immunohistochemistry (Paraffin)

Dilution

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

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.
3. Yu, L.M. and Chang, T.W. (1992) *J Immunol* 148, 633-7.
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

WB: Western Blotting **IP:** Immunoprecipitation **IHC-Bond:** IHC Leica Bond
IHC-P: Immunohistochemistry (Paraffin)

Cross-Reactivity Key

H: human **M:** mouse **R:** rat **Hm:** hamster **Mk:** monkey **Vir:** virus **Mi:** mink **C:** chicken **Dm:** D. melanogaster
X: Xenopus **Z:** zebrafish **B:** bovine **Dg:** dog **Pg:** pig **Sc:** S. cerevisiae **Ce:** C. elegans **Hr:** horse
GP: Guinea Pig **Rab:** rabbit **All:** all species expected

Trademarks and Patents

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc.

SignalStain is a registered trademark of Cell Signaling Technology, Inc.

XP is a registered trademark of Cell Signaling Technology, Inc.

All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.

Limited Uses

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.