

#52821 Store at +4°C

Phospho-CD79A (Tyr182) (D1B9) Rabbit mAb (Alexa Fluor® 488 Conjugate)


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: IF-IC, FC-FP | Reactivity: H | Sensitivity: Endogenous | Source/Isotype: Rabbit IgG | UniProt ID: #P11912 | Entrez-Gene Id: 973 |
|--------------------------------------|-------------------------|-----------------------------------|--------------------------------------|-------------------------------|-------------------------------|

| | | |
|--|--|---------------------------------|
| Product Usage Information | Application Immunofluorescence (Immunocytochemistry) Flow Cytometry (Fixed/Permeabilized) | Dilution 1:50 1:50 |
| Storage | Supplied in PBS (pH 7.2), less than 0.1% sodium azide and 2 mg/ml BSA. Store at 4°C. Do not aliquot the antibody. Protect from light. Do not freeze. | |
| Specificity / Sensitivity | Phospho-CD79A (Tyr182) (D1B9) Rabbit mAb (Alexa Fluor® 488 Conjugate) recognizes endogenous levels of human CD79A protein only when phosphorylated on Tyr188. This corresponds to Tyr182 of mouse CD79A protein. | |
| Species predicted to react based on 100% sequence homology: | Mouse | |
| Source / Purification | Monoclonal antibody is produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Tyr188 of human CD79A protein. The phosphopeptide sequence is identical to the region surrounding Tyr182 of mouse CD79A protein. | |
| Product Description | This Cell Signaling Technology antibody is conjugated to Alexa Fluor® 488 fluorescent dye and tested in-house for direct immunofluorescent and flow cytometric analysis in human cells. This antibody is expected to exhibit the same species cross-reactivity as the unconjugated Phospho-CD79A (Tyr182) (D1B9) Rabbit mAb #14732. | |
| 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) <i>J Immunol</i> 146, 3881-8. 2. Minegishi, Y. et al. (1999) <i>J Clin Invest</i> 104, 1115-21. 3. Yu, L.M. and Chang, T.W. (1992) <i>J Immunol</i> 148, 633-7. 4. Storch, B. et al. (2007) <i>Eur J Immunol</i> 37, 252-60. 5. Mason, D.Y. et al. (1995) <i>Blood</i> 86, 1453-9. 6. Luisiri, P. et al. (1996) <i>J Biol Chem</i> 271, 5158-63. 7. Pike, K.A. et al. (2004) <i>J Immunol</i> 172, 2210-8. 8. Astsaturon, I.A. et al. (1996) <i>Leukemia</i> 10, 769-73. 9. Vuillier, F. et al. (2005) <i>Blood</i> 105, 2933-40. | |

Species Reactivity

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

Applications Key

IF-IC: Immunofluorescence (Immunocytochemistry) **FC-FP:** Flow Cytometry (Fixed/Permeabilized)

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.

Alexa Fluor is a registered trademark of Life Technologies Corporation.

This product is provided under an intellectual property license from Life Technologies Corporation. The transfer of this product is conditioned on the buyer using the purchased product solely in research conducted by the buyer, excluding contract research or any fee for service research, and the buyer must not (1) use this product or its components for (a) diagnostic, therapeutic or prophylactic purposes; (b) testing, analysis or screening services, or information in return for compensation on a per-test basis; or (c) manufacturing or quality assurance or quality control, and/or (2) sell or transfer this product or its components for resale, whether or not resold for use in research. For information on purchasing a license to this product for purposes other than as described above, contact Life Technologies Corporation, 5791 Van Allen Way, Carlsbad, CA 92008 USA or outlicensing@lifetech.com.

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.