Anti–Phosphoinositide Monoclonal Antibodies

A-21327 anti-phosphatidylinositol 4,5-diphosphate, mouse IgM monoclonal 2C11
A-21328 anti-phosphatidylinositol 3,4,5-triphosphate, mouse IgM monoclonal RC6F8

Introduction

Recent research has revealed direct actions of phosphatidyl-inositol 4,5-biphosphate (PtdIns(4,5)P_2) and phosphatidylinositol 3,4,5-triphosphate (PtdIns(3,4,5)P_3) on a diverse array of cellular functions including actin assembly and cytoskeletal dynamics, vesicular protein trafficking, protein kinase localization and activation, cell proliferation and apoptosis. We are pleased to offer mouse monoclonal IgM antibodies to PtdIns(4,5)P_2 and PtdIns(3,4,5)P_3 for immunocytochemical localization of these important lipid metabolites. Both antibodies have been shown to recognize their cognate phosphoinositides in murine and human cells with only slight cross-reactivity with other phosphoinositides or phospholipids.

Contents and Storage

Anti–PtdIns(4,5)P_2 , mouse IgM monoclonal 2C11 (A-21327), anti–PtdIns(3,4,5)P_3 and mouse IgM monoclonal RC6F8 (A-21328) are supplied in units of 100 µL as 1 mg/mL solutions in phosphate-buffered saline (PBS), pH 7.2, containing 0.1% bovine serum albumin and 5 mM azide. Store the solutions in a refrigerator (4°C). The antibody stock solutions may be stored under these conditions for at least 30 days without adverse effects on their performance in typical applications. For long-term storage, divide the solutions into single-use aliquots and store frozen at -20°C. Frozen aliquots retain their activity, evaluated by immunofluorescent staining, for at least six months. AVOID REPEATED FREEZING AND THAWING.

Applications

Anti–PtdIns(4,5)P_2 , mouse IgM monoclonal 2C11 (A-21327)
Recommended working dilutions are 1:5000 for dot blots, 1:1000 for ELISA and 1:500 for cellular immunofluorescence and immunohistochemistry. Monoclonal 2C11 exhibits some cross-reactivity towards PtdIns(3,4,5)P_3 and phosphatidylinositol 4-phosphate.

Anti–PtdIns(3,4,5)P_3 , mouse IgM monoclonal RC6F8 (A-21328)
Recommended working dilutions are 1:100 for cellular immunofluorescence and 1:500 for immunohistochemistry.

For secondary immunofluorescence detection, Molecular Probes offers an extensive range of goat anti–mouse IgM (µ chain) antibodies labeled with our outstanding Alexa Fluor dyes. For further information on these products, please visit our Web site (www.probes.com) or contact our Technical Assistance Department.

References


Product List

<table>
<thead>
<tr>
<th>Cat #</th>
<th>Product Name</th>
<th>Unit Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>A-21327</td>
<td>anti-phosphatidylinositol 4,5-diphosphate, mouse IgM monoclonal 2C11 (anti-PtdIns(4,5)P2)</td>
<td>100 µL</td>
</tr>
<tr>
<td>A-21328</td>
<td>anti-phosphatidylinositol 3,4,5-triphosphate, mouse IgM monoclonal RC6F8 (anti-PtdIns(3,4,5)P3)</td>
<td>100 µL</td>
</tr>
</tbody>
</table>
Contact Information

Further information on Molecular Probes' products, including product bibliographies, is available from your local distributor or directly from Molecular Probes. Customers in Europe, Africa and the Middle East should contact our office in Leiden, the Netherlands. All others should contact our Technical Assistance Department in Eugene, Oregon.

Please visit our Web site — www.probes.com — for the most up-to-date information.

Molecular Probes, Inc.
PO Box 22010, Eugene, OR 97402-0469
Phone: (541) 465-8300 • Fax: (541) 344-6504

Customer Service: 7:00 am to 5:00 pm (Pacific Time)
Phone: (541) 465-8338 • Fax: (541) 344-6504 • order@probes.com

Toll-Free Ordering for USA and Canada:
Order Phone: (800) 438-2209 • Order Fax: (800) 438-0228

Technical Assistance: 8:00 am to 4:00 pm (Pacific Time)
Phone: (541) 465-8353 • Fax: (541) 465-4593 • tech@probes.com

Molecular Probes Europe BV
Poortgebouw, Rijnsburgerweg 10
2333 AA Leiden, The Netherlands
Phone: +31-71-5233378 • Fax: +31-71-5233419

Customer Service: 9:00 to 16:30 (Central European Time)
Phone: +31-71-5236850 • Fax: +31-71-5233419
euroder@probes.nl

Technical Assistance: 9:00 to 16:30 (Central European Time)
Phone: +31-71-5233431 • Fax: +31-71-5241883
eurotech@probes.nl

Molecular Probes' products are high-quality reagents and materials intended for research purposes only. These products must be used by, or directly under the supervision of, a technically qualified individual experienced in handling potentially hazardous chemicals. Please read the Material Safety Data Sheet provided for each product; other regulatory considerations may apply.

Several of Molecular Probes' products and product applications are covered by U.S. and foreign patents and patents pending. Our products are not available for resale or other commercial uses without a specific agreement from Molecular Probes, Inc. We welcome inquiries about licensing the use of our dyes, trademarks or technologies. Please submit inquiries by e-mail to busdev@probes.com. All names containing the designation ® are registered with the U.S. Patent and Trademark Office.

Copyright 2001, Molecular Probes, Inc. All rights reserved. This information is subject to change without notice.