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For Investigational Use Only

Anti-PI(3,4,5)P₃, Purified from ascites

Product No. Z-P345

Anti-phosphatidylinositol-3,4,5-trisphosphate [Anti-PtdIns(3,4,5)P₃]

Purified mouse monoclonal IgM, from ascites.

Concentration: 1 mg/ml in phosphate-buffered saline (PBS)

Hybridoma Source: RC6F8

Storage: Store at 2-8° for up to 30 days. Aliquot and freeze at -20°C if longer storage is necessary. Do not freeze-thaw antibody.

Purification: IgM Affinity Chromatography

Immunogen: Synthetic PtdIns(3,4,5)P₃ (1) conjugated to BSA.

Suggested Usage: 1:50 to 1:100 for cellular immunofluorescence and 1: 250 to 1:500 for immunohistochemistry. Detailed procedures are available from Echelon Biosciences and on our web site at www.echelon-inc.com.

Antibody Specificity: Shown to recognize PtdIns(3,4,5)P₃ in murine and human cells. Crossreactivity is 1% or less with other phosphatidylinositol phosphates or lipids (2).

References:

1. Chen J, Profit AA, and Prestwich GD Synthesis of Photoactivatable 1,2-*O*-diacyl-sn-glycerol Derivatives of 1-L-Phosphatidyl-D-*myo*-inositol 4,5-Bisphosphate (PtdInsP₂) and 3,4,5-Trisphosphate (PtdInsP₃). *J. Organic Chem.* **61**: 6305-6312.
2. Rickert, P, Weiner OD, Wang F, Bourne HR and Servant G. Leukocytes navigate by compass: roles of PI3Kgamma and its lipid products. *Trends Cell Biol* **10**(11): 466-73.
3. Chen R, Kang VH, Chen J, Shope JC, Torabinejad J, DeWald DB, Prestwich GD. A Monoclonal Antibody to Visualize PtdIns(3,4,5)P(3) in Cells. *J Histochem Cytochem.* 2002 May; **50**(5):697-708.

Use this Product with:

D-*myo*-phosphatidylinositol 3,4,5-trisphosphates (PtdIns(3,4,5)P₃) including:

- D(+)-sn-1,1-di-*O*-butanoylglyceryl,3-*O*-phospho linked (Product P-3904)
- D(+)-sn-1,1-di-*O*-octanoylglyceryl,3-*O*-phospho linked (Product P-3908)
- D(+)-sn-1,1-di-*O*-hexadecanoylglyceryl,3-*O*-phospho linked (Product P-3916)

NBD6 PtdIns(3,4,5)P₃ Fluorescent Probe

D(+)-sn-1-*O*-[6'-[[6-[(7-nitrobenz-2-oxa-1,3-diazol-4-yl)amino]hexanoyl]amino]-hexanoyl]-2-*O*-hexanoylglyceryl D-*myo*-phosphatidylinositol 3,4,5-trisphosphate (Product C39N6)

Related Products In Development:

Anti-phosphatidylinositol-3,4,5-trisphosphate [Anti-PtdIns(3,4,5)P₃] enzyme or fluorescent conjugates

A full line of antibodies specific to phosphatidylinositol phosphates

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