Echelon Biosciences Inc.

Mouse HRP-conjugated Anti-PI(3,4,5)P_3

Z-H345

Support: echelon@echelon-inc.com

Description:
Monoclonal mouse IgM antibody conjugated to HRP targeting PI(3,4,5)P3

Applications:
IF - 5 ug/mL
ELISA - 20 ug/mL

Other in vitro and cellular applications are possible using this antibody, but have not been verified by Echelon Biosciences

Properties:
Form – liquid
Storage instructions – Store at 4 °C for up to 30 days. For long-term storage, aliquot and store at -20 °C Avoid repeated freeze/thaw cycles.
Storage buffer – PBS + 0.01% thiomersal
Concentration – 2.7 mg/mL
Purity – affinity purified by anti-IgM chromatography
Immunogen – PI(3,4,5)P3 conjugated to BSA
Clonality – monoclonal; RC6F8
Isotype - IgM

Specificity:
HRP Anti-PI(3,4,5)P3 reacts primarily with the head group of the indicated phosphoinositide (of synthetic or natural origin), and demonstrates low cross-reactivity with other phosphoinositides or phospholipids depending on the assay format.

Background:
PI(3,4,5)P3 is a generated by phosphorylation of PI(4,5)P2 by PI3 kinases. Production of PI(3,4,5)P3 at the plasma membrane is known to enhance association of PH-domain containing proteins associated with multiple receptor signaling cascades.

References:

1. Silva A, Yunes JA, Cardoso BA, Martins LR, Jotta PY, Abecasis M, Nowill AE, Leslie NR, Cardoso AA, Barata JT. (2008) PTEN posttranslational inactivation and hyperactivation of the PI3K/Akt pathway sustain primary T cell leukemia viability. J Clin Invest. 118(11):3762-74.

2. Hama H, Torabinejad J, Prestwich GD, DeWald DB. (2004) Measurement and immunofluorescence of cellular phosphoinositides. Methods Mol Biol. 2;284:243-58.

3. Chen R, Kang VH, Chen J, Shope JC, Torabinejad J, DeWald DB, Prestwich GD. (2002) A monoclonal antibody to visualize PtdIns(3,4,5)P(3) in cells. J Histochem Cytochem, 50(5):697-708.

Related Products:

Products	Catalog Number
Assays, Lipids, and Enzymes	
PIP3 Mass ELISA	K-2500s
PI3-Kinase Activity ELISA	K-1000s
SHIP2 Enzyme	E-1000
Lipids and Antibodies	
PI(3,4,5)P3	P-3908, P-3916
Anti-PI(3,4,5)P3	Z-P345b (purified IgG) Z-B345b (biotinylated IgG) Z-P345 (purified IgM)

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