Human/Mouse/Rat PLC-γ1 Antibody

Monoclonal Rat IgG_{2A} Clone # 479819

Catalog Number: MAB32881

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects endogenous human, mouse, and rat PLC-γ1.
Source	Monoclonal Rat IgG_{2A} Clone # 479819
Purification	Protein A or G purified from hybridoma culture supernatant
Immunogen	*E. coli*-derived recombinant human PLC-γ1 Phe550-His663 Accession # P19174
Formulation	Lyophilized from a 0.2 μm filtered solution in PBS with Trehalose. See Certificate of Analysis for details. *Small pack size (-SP) is supplied either lyophilized or as a 0.2 μm filtered solution in PBS.

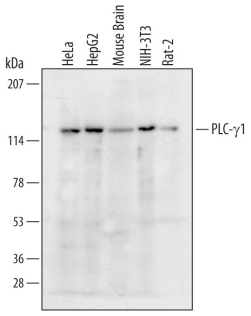
APPLICATIONS

Please Note: *Optimal dilutions should be determined by each laboratory for each application. General Protocols are available in the Technical Information section on our website.*

	Recommended Concentration	Sample
Western Blot	1 µg/mL	See Below

DATA

Western Blot



Detection of Human/Mouse/Rat PLC-γ1 by Western Blot. Western blot shows lysates of HeLa human cervical epithelial carcinoma cell line, HepG2 human hepatocellular carcinoma cell line, NIH-3T3 mouse embryonic fibroblast cell line, and mouse brain tissue. PVDF membrane was probed with 1 µg/mL of Human/Mouse/Rat PLC-γ1 Monoclonal Antibody (Catalog # MAB32881) followed by HRP-conjugated Anti-Rat IgG Secondary Antibody (Catalog # HAF005). A specific band was detected for PLC-γ1 at approximately 120 kDa (as indicated). This experiment was conducted under reducing conditions and using Immunoblot Buffer Group 1.

PREPARATION AND STORAGE

Reconstitution	Reconstitute at 0.5 mg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below. *Small pack size (-SP) is shipped with polar packs. Upon receipt, store it immediately at -20 to -70 °C
Stability & Storage	**Use a manual defrost freezer and avoid repeated freeze-thaw cycles.** ● 12 months from date of receipt, -20 to -70 °C as supplied. ● 1 month, 2 to 8 °C under sterile conditions after reconstitution. ● 6 months, -20 to -70 °C under sterile conditions after reconstitution.

BACKGROUND

PLC-γ1 (phospholipase C-gamma 1) cleaves the polar head group from the membrane lipid phosphatidyl-inositol 4,5-biphosphate. The consequence of this reaction is the generation of two secondary messengers, inositol 1,4,5-trisphosphate and diacylglycerol, which mediate the mobilization of intracellular calcium and the activation of protein kinase C, respectively. Members of the PLC family are regulated by different signaling pathways. PLC-γ1 is regulated through receptor and non-receptor tyrosine kinases, while the PLC-β isoforms are regulated by G-protein coupled receptors.

bio-techne®
Global bio-techne.com info@bio-techne.com techsupport@bio-techne.com TEL +1 612 379 2956
USA TEL 800 343 7475 Canada TEL 855 668 8722 China TEL +86 (21) 52380373
Europe | Middle East | Africa TEL +44 (0)1235 529449