Human/Mouse/Rat Phospho-PLC-γ1 (Y783) Antibody

Recombinant Monoclonal Rabbit IgG Clone # 1016A
Catalog Number: MAB74541

DESCRIPTION

Species Reactivity	Human/Mouse/Rat
Specificity	Detects human/mouse/rat PLC-γ1 when phosphorylated at Y783 in Western blots.
Source	Recombinant Monoclonal Rabbit IgG Clone # 1016A
Purification	Protein A or G purified from cell culture supernatant
Immunogen	Phosphopeptide containing the human/mouse/rat PLC-γ1 Y783 site 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.

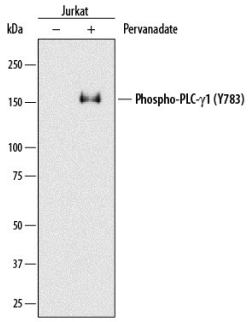
APPLICATIONS

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	0.05 µg/mL	See Below

DATA

Western Blot



Detection of Human Phospho-PLC-γ1 (Y783) by Western Blot. Western blot shows lysates of Jurkat human acute T cell leukemia cell line untreated (-) or treated (+) with 1 mM Pervanadate (PV) for 5 minutes. PVDF membrane was probed with 0.05 µg/mL of Rabbit Anti-Human/Mouse/Rat Phospho-PLC-γ1 (Y783) Monoclonal Antibody (Catalog # MAB74541) followed by HRP-conjugated Anti-Rabbit IgG Secondary Antibody (Catalog # HAF008). A specific band was detected for Phospho-PLC-γ1 (Y783) at approximately 150 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

Phospholipase C gamma-1 (PLC-γ1) is activated by receptor tyrosine kinases in response to growth factors and hormones, and phosphorylation at Tyr783 is a widely used indicator of activation. Activated PLC-γ1 catalyzes the hydrolysis of phosphatidylinositol 4,5-biphosphate to produce the second messengers inositol 1,4,5-triphosphate (IP3) and diacylglycerol (DAG). IP3 mobilizes the release of calcium while DAG activates protein kinase C. PLC-γ1 plays an important role in regulating cell proliferation and differentiation.

PRODUCT SPECIFIC NOTICES

* Contains <0.1% Sodium Azide, which is not hazardous at this concentration according to GHS classifications. Refer to SDS for additional information and handling instructions.

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