PLC β3 (m): 293T Lysate: sc-122623



The Power to Question

BACKGROUND

Phosphoinositide-specific phospholipase C (PLC) plays a critical role in the initiation of receptor mediated signal transduction through the generation of the two second messengers, inositol 1,4,5-triphosphate and diacylglycerol from phosphatidylinositol 4,5 bisphosphate. A total of eight mammalian PLC isozymes have been described (PLC β 1, PLC β 2, PLC β 3, PLC β 4, PLC γ 1, PLC γ 2, PLC δ 1 and PLC δ 2). The γ -type enzymes are unique in that they contain SH2 and SH3 domains. Moreover, the two γ -type enzymes, but not the β and δ isozymes, are subject to activation by a number of protein tyrosine kinases which associate with their SH2 domains and induce their activation by phosphoryation. In contrast, activation of PLC β 1, PLC β 2 and PLC β 3 is mediated by the a subunits of the G_q class of heterotrimeric G proteins and by certain $\beta\gamma$ G protein subunits. The regulatory mechanisms for PLC δ 1 and PLC δ 2 are not yet resolved.

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CHROMOSOMAL LOCATION

Genetic locus: Plcb3 (mouse) mapping to 19 A.

PRODUCT

PLC $\beta3$ (m): 293T Lysate represents a lysate of mouse PLC $\beta3$ transfected 293T cells and is provided as 100 μ g protein in 200 μ l SDS-PAGE buffer.

APPLICATIONS

PLC β 3 (m): 293T Lysate is suitable as a Western Blotting positive control for mouse reactive PLC β 3 antibodies. Recommended use: 10-20 μ 1 per lane.

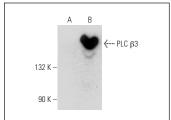
Control 293T Lysate: sc-117752 is available as a Western Blotting negative control lysate derived from non-transfected 293T cells.

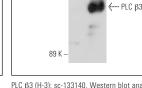
PLC β 3 (H-1): sc-271372 is recommended as a positive control antibody for Western Blot analysis of enhanced mouse PLC β 3 expression in PLC β 3 transfected 293T cells (starting dilution 1:100, dilution range 1:100-1:1,000).

RECOMMENDED SUPPORT REAGENTS

To ensure optimal results, the following support reagents are recommended: 1) Western Blotting: use m-lgG κ BP-HRP: sc-516102 or m-lgG κ BP-HRP (Cruz Marker): sc-516102-CM (dilution range: 1:1000-1:10000), Cruz MarkerTM Molecular Weight Standards: sc-2035, UltraCruz[®] Blocking Reagent: sc-516214 and Western Blotting Luminol Reagent: sc-2048.

DATA





PLC β 3 (H-1): sc-271372. Western blot analysis of PLC β 3 expression in non-transfected: sc-117752 (**A**) and mouse PLC β 3 transfected: sc-122623 (**B**) 293T whole cell lysates.

PLC β 3 (H-3): sc-133140. Western blot analysis of PLC β 3 expression in non-transfected: sc-117752 (**A**) and mouse PLC β 3 transfected: sc-122623 (**B**) 293T whole cell Ivsates.

STORAGE

Store at -20 $^{\circ}$ C. Repeated freezing and thawing should be minimized. Sample vial should be boiled once prior to use. Non-hazardous. No MSDS required.

RESEARCH USE

For research use only, not for use in diagnostic procedures.

PROTOCOLS

See our web site at www.scbt.com for detailed protocols and support products.

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