PLC ε2 (S-16): sc-99600



The Power to Question

BACKGROUND

Phosphoinositide-specific phospholipase C (PLC) plays a crucial role in the initiation of receptor mediated signal transduction through the generation of the two second messengers, inositol 1,4,5-triphosphate (lns(1,4,5)P3) and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. There are many mammalian PLC isozymes, including PLC β 1, PLC β 2, PLC β 3, PLC β 4, PLC γ 1, PLC γ 2, PLC δ 3, PLC δ 4, PLC γ 1, PLC δ 2, PLC δ 3, PLC δ 4, PLC γ 1, PLC δ 2, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 2, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 3, PLC δ 4, PLC δ 4, PLC δ 1, PLC δ 3, PLC δ 4, PLC δ 5, PLC δ 6, PLC δ 6, PLC δ 6, PLC δ 7, PLC δ 7, PLC δ 7, PLC δ 7, PLC δ 8, PLC δ 8, PLC δ 8, PLC δ 9, PLC δ 9,

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CHROMOSOMAL LOCATION

Genetic locus: PLCL2 (human) mapping to 3p24.3; Plcl2 (mouse) mapping to 17 $\,\mathrm{C}.$

SOURCE

PLC ϵ 2 (S-16) is an affinity purified goat polyclonal antibody raised against a peptide mapping within an internal region of PLC ϵ 2 of human origin.

PRODUCT

Each vial contains 200 μg lgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

Blocking peptide available for competition studies, sc-99600 P, (100 μ g peptide in 0.5 ml PBS containing < 0.1% sodium azide and 0.2% BSA).

APPLICATIONS

PLC $\epsilon 2$ (S-16) is recommended for detection of PLC $\epsilon 2$ of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μg per 100-500 μg of total protein (1 ml of cell lysate)], immunofluorescence (starting dilution 1:50, dilution range 1:50-1:500) and solid phase ELISA (starting dilution 1:30, dilution range 1:30-1:3000).

PLC $\varepsilon 2$ (S-16) is also recommended for detection of PLC $\varepsilon 2$ in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PLC $\epsilon2$ siRNA (h): sc-77971, PLC $\epsilon2$ siRNA (m): sc-152296, PLC $\epsilon2$ shRNA Plasmid (h): sc-77971-SH, PLC $\epsilon2$ shRNA Plasmid (m): sc-152296-SH, PLC $\epsilon2$ shRNA (h) Lentiviral Particles: sc-77971-V and PLC $\epsilon2$ shRNA (m) Lentiviral Particles: sc-152296-V.

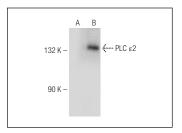
Molecular Weight of PLC ε2: 130 kDa.

Positive Controls: PLC ε2 (m): 293T Lysate: sc-122624.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use donkey anti-goat IgG-HRP: sc-2020 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible donkey anti-goat IgG-HRP: sc-2033 (dilution range: 1:2000-1:5000), Cruz Marker™ Molecular Weight Standards: sc-2035, TBS Blotto A Blocking Reagent: sc-2333 and Western Blotting Luminol Reagent: sc-2048. 2) Immunoprecipitation: use Protein A/G PLUS-Agarose: sc-2003 (0.5 ml agarose/2.0 ml). 3) Immunofluorescence: use donkey anti-goat IgG-FITC: sc-2024 (dilution range: 1:100-1:400) or donkey anti-goat IgG-TR: sc-2783 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

DATA



PLC ϵ 2 (S-16): sc-99600. Western blot analysis of PLC ϵ 2 expression in non-transfected: sc-117752 (**A**) and mouse PLC ϵ 2 transfected: sc-122624 (**B**) 293T whole cell lysates.

STORAGE

Store at 4° C, **DO NOT FREEZE**. Stable for one year from the date of shipment. Non-hazardous. No MSDS required.

RESEARCH USE

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