

PLC-L (H-65): sc-25502

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 nine mammalian PLC isozymes have been described. PLC-L (for PLC-deleted in lung carcinoma) is a PLC family member, the expression of which is decreased in small cell lung carcinomas. PLC-L is normally expressed in a variety of fetal and adult organs including the lung. PLC-L is thought to be involved in inositol phospholipid-based intracellular signaling cascade and aberrant expression of PLC-L may contribute to the genesis or progression of human lung carcinoma.

REFERENCES

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CHROMOSOMAL LOCATION

Genetic locus: PLCL1 (human) mapping to 2q33.1; Plcl1 (mouse) mapping to 1 C1.2.

SOURCE

PLC-L (H-65) is a rabbit polyclonal antibody raised against amino acids 121-185 mapping near the N-terminus PLC-L of human origin.

PRODUCT

Each vial contains 200 μ g IgG in 1.0 ml of PBS with < 0.1% sodium azide and 0.1% gelatin.

STORAGE

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

APPLICATIONS

PLC-L (H-65) is recommended for detection of PLC-L of mouse, rat and human origin by Western Blotting (starting dilution 1:200, dilution range 1:100-1:1000), immunoprecipitation [1-2 μ g per 100-500 μ g 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-L (H-65) is also recommended for detection of PLC-L in additional species, including equine, canine, bovine, porcine and avian.

Suitable for use as control antibody for PLC-L siRNA (h): sc-40845, PLC-L siRNA (m): sc-40846, PLC-L shRNA Plasmid (h): sc-40845-SH, PLC-L shRNA Plasmid (m): sc-40846-SH, PLC-L shRNA (h) Lentiviral Particles: sc-40845-V and PLC-L shRNA (m) Lentiviral Particles: sc-40846-V.

Molecular Weight of PLC-L: 130 kDa.

Positive Controls: Mouse cerebellum extract: sc-2403 or rat brain extract: sc-2392.

RECOMMENDED SECONDARY REAGENTS

To ensure optimal results, the following support (secondary) reagents are recommended: 1) Western Blotting: use goat anti-rabbit IgG-HRP: sc-2004 (dilution range: 1:2000-1:100,000) or Cruz Marker™ compatible goat anti-rabbit IgG-HRP: sc-2030 (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 goat anti-rabbit IgG-FITC: sc-2012 (dilution range: 1:100-1:400) or goat anti-rabbit IgG-TR: sc-2780 (dilution range: 1:100-1:400) with UltraCruz™ Mounting Medium: sc-24941.

RESEARCH USE

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

PROTOCOLS

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