

PLC γ 1 (phospho-Y1253) polyclonal antibody

Catalog: BS4865

Host: Rabbit

Reactivity: Human, Mouse, Rat

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 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 1, PLC δ 2 and PLC ϵ . PLC γ 1 is widely distributed in bronchiolar epithelium, type I and II pneumocytes and fibroblasts of the interstitial tissue. Actinregulatory protein Villin is tyrosine phosphorylated and associates with PLC γ 1 in the brush border of intestinal epithelial cells. Villin regulates PLC γ 1 activity by modifying its own ability to bind phosphatidylinositol 4,5-bisphosphate. PLC γ 1 binds α 1 β 1 Integrin and modulates α 1 β 1 Integrin-specific adhesion. PLC γ 1 and Ca²⁺ play a direct role in VEGF-regulated endothelial growth, however this signaling pathway is not linked to FGF-mediated effects in primary endothelial cells.

Product:

1 mg/ml in Phosphate buffered saline (PBS) with 0.05% sodium azide, approx. pH 7.2.

Molecular Weight:

~ 155 kDa

Swiss-Prot:

P19174

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific im-

munogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

ICC: 1:50~1:200

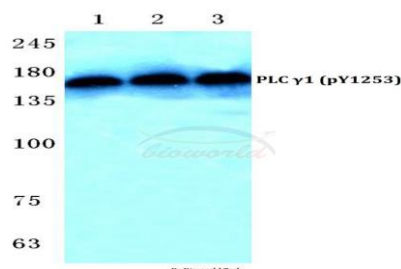
Storage&Stability:

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

p-PLC γ 1 (Y1253) polyclonal antibody detects endogenous levels of PLC γ 1 protein when phosphorylated at Tyr1253.

DATA:



Western blot (WB) analysis of p-PLC γ 1 (Y1253) polyclonal antibody at 1:500 dilution

Lane1:MCF-7 cell lysate treated with EGF(0.1ng/ML,30mins)

Lane2:Mouse liver tissue lysate

Lane3:H9C2 cell lysate treated with EGF(0.1ng/ML,30mins)

Note:

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

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