

## PLC $\gamma$ 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  $\beta$ 1, PLC  $\beta$ 2, PLC  $\beta$ 3, PLC  $\beta$ 4, PLC  $\gamma$ 1, PLC  $\gamma$ 2, PLC  $\delta$ 1, PLC  $\delta$ 2 and PLC  $\epsilon$ . PLC  $\gamma$ 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  $\gamma$ 1 in the brush border of intestinal epithelial cells. Villin regulates PLC  $\gamma$ 1 activity by modifying its own ability to bind phosphatidylinositol 4,5-biphosphate. PLC  $\gamma$ 1 binds  $\alpha$ 1 $\beta$ 1 Integrin and modulates  $\alpha$ 1 $\beta$ 1 Integrin-specific adhesion. PLC  $\gamma$ 1 and Ca<sup>2+</sup> 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:

Rabbit IgG, 1mg/ml in PBS with 0.02% sodium azide, 50% glycerol, pH7.2

### 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

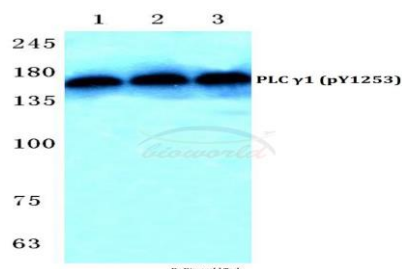
### Storage&Stability:

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

### Specificity:

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

### DATA:



Western blot (WB) analysis of p-PLC  $\gamma$ 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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