

PLC γ 1 (phospho-Y783) polyclonal antibody

Catalog: BCP01344

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:

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

Molecular Weight:

~ 148 kDa

Swiss-Prot:

P19174

Purification&Purity:

The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen and the purity is > 95% (by SDS-PAGE).

Applications:

WB: 1:500~1:1000

Storage&Stability:

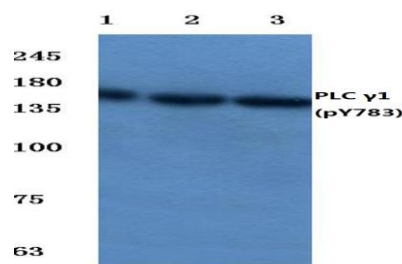
Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Specificity:

p-PLC γ 1 (Y783) polyclonal antibody detects endogenous

levels of PLC γ 1 protein only when phosphorylated at Tyr783

DATA:



Western blot (WB) analysis of p-PLC γ 1 (Y783) pAb at 1:500 dilution

Lane1:HEK293T whole cell lysate(40ug)

Lane2:HEK293T treated with UV for 5 minutes then repair for 4 hours whole cell lysate(40ug)

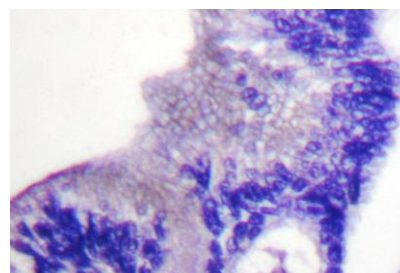
Lane3:HEK293T treated with UV for 5 minutes then repair for 6 hours whole cell lysate(40ug)

Lane4:HEK293T treated with UV for 5 minutes then repair for 16 hours whole cell lysate(40ug)

Lane5:HEK293T treated with UV for 5 minutes then repair for 24 hours whole cell lysate(40ug)

Lane6:C6 whole cell lysate(40ug)

Lane7:The Kidney tissue lysate of Mouse(40ug)



Immunohistochemistry (IHC) analyzes of p-PLCG1 (Y783) pAb in paraffin-embedded human breast carcinoma tissue.

Note:

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