

## PLD2 (phospho-Y169) polyclonal antibody

Catalog: BS4858

Host: Rabbit

Reactivity: Human, Mouse, Rat

### BackGround:

Phosphatidylcholine phospholipase D1 and D2 (PC-PLD1 and PC-PLD2) are phospholipid-specific phosphodiesterases that hydrolyze phosphatidylcholine. Unlike PC-PLD1, which associates with secretory granules, PC-PLD2 localizes to the plasma membrane, where it is implicated in the formation of endocytotic vesicles. Both PC-PLD1 and PC-PLD2 coordinately regulate macrophage phagocytosis. PC-PLD activity in mammalian cells is transiently stimulated upon activation by G protein-coupled and receptor tyrosine kinase cell surface receptors. In addition, tubulin binding to PC-PLD2 inhibits muscarinic receptor-linked PC-PLD2 activation. PC-PLD2 also enhances PKC $\zeta$  activity through direct interaction in a lipase activity-independent manner.

### Product:

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

### Molecular Weight:

~ 106 kDa

### Swiss-Prot:

O14939

### 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-PLD2 (Y169) polyclonal antibody detects endogenous levels of PLD2 protein only when phosphorylated at Tyr169.

### DATA:



Western blot (WB) analysis of p-PLD2 (Y169) polyclonal antibody at 1:500 dilution

Lane1: HEK293T cell lysate treated with TNF $\alpha$  (20ng/ML, 15mins)

Lane2: NIH-3T3 cell lysate treated with TNF $\alpha$  (20ng/ML, 15mins)

Lane3: H9C2 cell lysate treated with TNF $\alpha$  (20ng/ML, 15mins)

### Note:

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

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