

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



p-PLC γ 2 (Y753) Peptide

Cat No.: BS4245P

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 δ exists as four different isoforms. PLC δ 1, a calcium signal amplifier, is activated by an atypical GTP-binding protein. In addition, PLC δ 1 is an effector for GTP-binding protein transglutaminase II-mediated oxytocin receptor and α 1B-adrenoreceptor signaling. Mouse PLC δ 1 is highly expressed in brain, heart, lung and testis. PLC δ is abnormally accumulated in autopsied brains with Alzheimer's disease (AD), suggesting that it may play a role in the pathology of AD. PLC δ 2 is markedly expressed in type II intestinal metaplasia and in the adenocarcinoma. When PLC δ 2 is expressed in type I intestinal metaplasia, the metaplasia is generally considered benignant, yet evolves toward neoplastic transformation. Thus, PLC δ 2 expression may be a possible marker of gastric malignant transformation.

Swiss-Prot

P16885

Applications

Blocking

Specificity

This peptide can be used with studies using BS4245 p-PLC γ 2 (Y753) pAb.

Purification & Purity

Synthetic peptide p-PLC γ 2 (Y753). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

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

Research Use

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

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