abcam

Product datasheet

Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) antibody ab4828

★★★★☆ **1 Abreviews**   **1 References**   2 图像

概述

产品名称	Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783)抗体
描述	兔多克隆抗体to Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783)
宿主	Rabbit
特异性	Phosphorylation site-specific antibody selective for the phosphorylated form of the Phospholipase C gamma 1/PLC-gamma-1 containing a phosphate on tyrosine 783. The antibody has been shown to recognize the endogenous form of Phospholipase C gamma 1/PLC-gamma-1 when phosphorylated on tyrosine 783 in a variety of cell types following treatment by a broad range of extracellular stimuli. Applications include NIH 3T3 cells +/- PDGF. The antibody does not react with a site directed mutant (Y783F).
经测试应用	**适用于:** IHC-P, WB
种属反应性	**与反应:** Mouse, Human
	预测可用于: Rat, Cow, a wide range of other species ⚠
免疫原	Synthetic peptide corresponding to Human Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783). This region is conserved among many species including mouse, rat, cow and frog.
常规说明	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.
	If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

性能

形式	Liquid
存放说明	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
存储溶液	pH: 7.30 Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol, 0.1% BSA

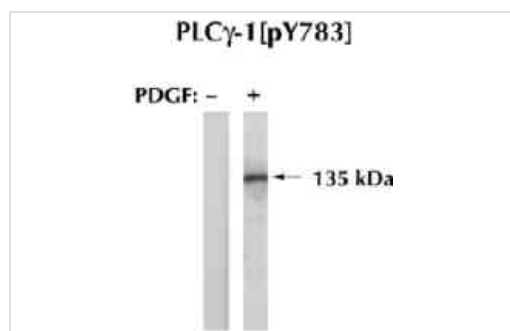|	BSA is IgG and protease free
纯度	Immunogen affinity purified
纯化说明	Purified from rabbit serum by sequential epitope-specific chromatography. The antibody has been negatively preadsorbed using i) a non-phosphopeptide corresponding to the site of phosphorylation to remove antibody that is reactive with nonphosphorylated Phospholipase C gamma 1/PLC-gamma-1 enzymes and (ii) a generic tyrosine phosphorylated peptide to remove antibody that is reactive with phosphotyrosine, irrespective of the sequence. The final product is generated by affinity chromatography using an Phospholipase C gamma 1/PLC-gamma-1 derived peptide that is phosphorylated at tyrosine 783.
克隆	多克隆
同种型	IgG

应用

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"应用说明"部分 下显示的仅为**推荐的起始稀释度**;实际**最佳的稀释度/浓度应由使用者**检定。

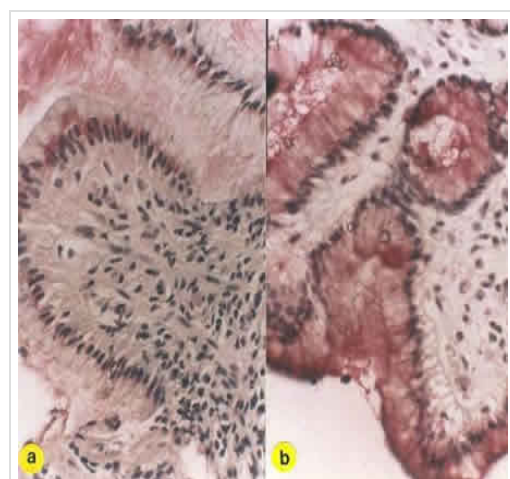| 应用	Ab评论	说明
IHC-P		Use at an assay dependent concentration.
WB	★★★★☆ (1)	1/1000. Predicted molecular weight: 135 kDa.

靶标

功能	Plays a role in actin reorganization and cell migration. The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. Major substrate for heparin-binding growth factor 1 (acidic fibroblast growth factor)-activated tyrosine kinase.
序列相似性	Contains 1 C2 domain. Contains 1 EF-hand domain. Contains 2 PH domains. Contains 1 PI-PLC X-box domain. Contains 1 PI-PLC Y-box domain. Contains 2 SH2 domains. Contains 1 SH3 domain.
结构域	The SH3 domain mediates interaction with CLNK (By similarity). The SH3 domain also mediates interaction with RALGPS1.
翻译后修饰	The receptor-mediated activation of PLC-gamma-1 and PLC-gamma-2 involves their phosphorylation by tyrosine kinases in response to ligation of a variety of growth factor receptors and immune system receptors. May be dephosphorylated by PTPRJ. Ubiquitinated by CBLB in activated T-cells.
细胞定位	Cell projection > lamellipodium. Cell projection > ruffle. Rapidly redistributed to ruffles and lamellipodia structures in response to epidermal growth factor (EGF) treatment.

图片

Western blot - Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) antibody (ab4828)

Extracts prepared from NIH/3T3 (Mouse embryonic fibroblast cell line) cells exposed to PDGF (10 ng/mL) for 10 minutes were resolved on a 10% Tris-glycine gel and transferred to nitrocellulose. Membranes were blocked with 1% BSA, followed by incubation with 0.5 μg/mL ab4828 antibody. After washing, membranes were incubated with goat F(ab')2 anti-rabbit IgG alkaline phosphatase and the signal was detected by chemiluminescence using the Tropix WesternStar detection method and Kodak BioMax ultraclear film. The data show that PDGF is a strong inducer of Phospholipase C gamma 1/PLC-gamma-1 phosphorylation on Y783 in NIH3T3 cells. Extracts prepared from NIH-3T3 cells exposed to PDGF (10 ng/mL) for 10 minutes were resolved on a 10% Tris-glycine gel and transferred to nitrocellulose. Membranes were blocked with 1% BSA, followed by incubation with 0.5 μg/mL ab4828 antibody. After washing, membranes were incubated with goat F(ab')2 anti-rabbit IgG alkaline phosphatase and the signal was detected by chemiluminescence using the Tropix

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) antibody (ab4828)

ab5163 at a diluton of 1/1000 staining Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) in formalin fixed paraffin embedded sections of a) inflammed human gastric epithelium and b) normal human gastric epithelium by immunohistochemistry.

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