abcam

Product datasheet

Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) antibody [EP1898Y] ab76031



重组 RabMAb

2 References 5 图像

概述

产品名称 Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783)抗体[EP1898Y]

描述 兔单克隆抗体[EP1898Y] to Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783)

宿主 Rabbit

经测试应用 适用于: WB, ICC/IF, Dot blot

不适用于: Flow Cyt,IHC-P or IP

种属反应性 与反应: Mouse, Human

免疫原 Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.

阳性对照 WB: Jurkat cell lysates treated with pervanadate. ICC/IF: Jurkat cells treated with pervanadate.

Our RabMAb® technology is a patented hybridoma-based technology for making rabbit 常规说明

monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

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 guestions, 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

Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with

these species. Please contact us for more information.

性能

形式 Liquid

存放说明 Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.

存储溶液

Preservative: 0.05% Sodium azide

Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue

culture supernatant

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纯**度** Protein A purified

克隆 单克隆

克隆编号 EP1898Y

同种型 IgG

应用

The Abpromise guarantee Abpromise™承诺保证使用ab76031于以下的经测试应用

"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
WB		1/100000 - 1/200000. Detects a band of approximately 149 kDa (predicted molecular weight: 149 kDa).
ICC/IF		1/100.
Dot blot		1/1000.

应用说明 Is unsuitable for Flow Cyt,IHC-P or IP.

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

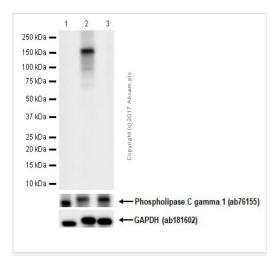
and immune system receptors. May be dephosphorylated by PTPRJ.

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/PLCgamma-1 (phospho Y783) antibody [EP1898Y] (ab76031)

All lanes : Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) antibody [EP1898Y] (ab76031) at 1/1000 dilution

Lane 1 : Jurkat (human T cell leukemia T lymphocyte) whole cell lysate

Lane 2 : Jurkat treated with 50mM pervanadate for 5 minutes whole cell lysate

Lane 3 : Jurkat treated with 50mM pervanadate for 5 min whole cell lysate. Then the membrane was incubated with alkaline phosphatase

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit lgG H&L (HRP) (<u>ab97051</u>) at 1/20000 dilution

Predicted band size: 149 kDa **Observed band size:** 149 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

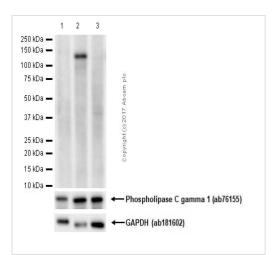
ab76031 DAPI MERCED

ab76031 DAPI MERCED

Ab76031 DAPI MERCED

Immunocytochemistry/ Immunofluorescence - Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) antibody [EP1898Y] (ab76031)

Immunocytochemistry/Immunofluorescence analysis of Jurkat +/-pervanadate (1mM, 30min) and Jurkat + pervanadate (1mM, 30min) + LP labelling Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) with ab76031 at a dilution of 1/100. Cells were fixed with 4% paraformaldehyde and permeabilized with 0.1% tritonX-100. ab150077 (goat anti-rabbit IgG Alexa Fluor[®] 488) (1/1000) was used as the secondary antibody. The cells were costained with ab195889 (Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor[®] 594)) at a 1/200 dilution. Nuclei counterstained with DAPI (blue). Control: PBS instead of the primary antibody.



Western blot - Anti-Phospholipase C gamma 1/PLCgamma-1 (phospho Y783) antibody [EP1898Y] (ab76031)

All lanes : Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) antibody [EP1898Y] (ab76031) at 1/1000 dilution

Lane 1: NIH/3T3 (mouse embryonic fibroblast), whole cell lysate Lane 2: NIH/3T3 treated with 50ng/ml PDGF-BB for 30 minutes whole cell lysate

Lane 3: NIH/3T3 treated with 50ng/ml PDGF-BB for 30 minutes whole cell lysate. Then the membrane was incubated with alkaline phosphatase.

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG H&L (HRP) (<u>ab97051</u>) at 1/20000 dilution

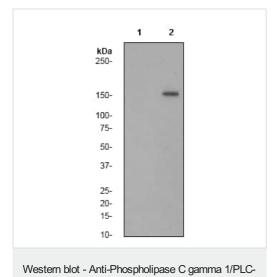
Predicted band size: 149 kDa **Observed band size:** 149 kDa

Blocking and dilution buffer: 5% NFDM/TBST.

1 2
5ng
1ng
0.1ng
0.01ng
0.01ng

Dot Blot - Anti-Phospholipase C gamma 1/PLCgamma-1 (phospho Y783) antibody [EP1898Y] (ab76031)

Dot blot analysis of Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) phospho peptide (Lane 1) and Phospholipase C gamma 1/PLC-gamma-1 non-phospho peptide (Lane 2) labelling Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) with ab76031 at a dilution of 1/1000. A Goat Anti-Rabbit lgG, (H+L), Peroxidase conjugated (ab97051) was used as the secondary antibody at a dilution of 1/20,000. Blocking buffer: 5% NFDM/TBST. Dilution buffer: 5% NFDM/TBST.



gamma-1 (phospho Y783) antibody [EP1898Y]

(ab76031)

All lanes : Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y783) antibody [EP1898Y] (ab76031) at 1/200000 dilution

Lane 1: Jurkat cell lysates, untreated

Lane 2: Jurkat cell lysates, treated with pervanadate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes: goat anti-rabbit HRP at 1/2000 dilution

Predicted band size: 149 kDa **Observed band size:** 149 kDa

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