


Product datasheet

Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y775) antibody ab41434

1 Image

Overview

Product name	Anti-Phospholipase C gamma 1/PLC-gamma-1 (phospho Y775) antibody
Description	Rabbit polyclonal to Phospholipase C gamma 1/PLC-gamma-1 (phospho Y775)
Host species	Rabbit
Specificity	Phospho-Tyr775-IPhospholipase C gamma 1/PLC-gamma-1 specific. Immunogen sequence has low homology to Phospholipase C gamma 2.
Tested applications	Suitable for: WB
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide corresponding to Human Phospholipase C gamma 1/PLC-gamma-1 (phospho Y775). Database link: P19174
Positive control	Human Jurkat and A431 cells treated with pervanadate.
General notes	<p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at 4°C (up to 6 months). Store at -20°C.
Storage buffer	Preservative: 0.05% Sodium azide Constituents: PBS, 50% Glycerol, 0.1% BSA
Purity	Immunogen affinity purified
Purification notes	This antibody was cross-adsorbed to a non-specific phospho-tyrosine peptide, then affinity purified using phospho- Phospholipase C gamma 1/PLC-gamma-1 (Tyr775) peptide.

Clonality	Polyclonal
Isotype	IgG

Applications

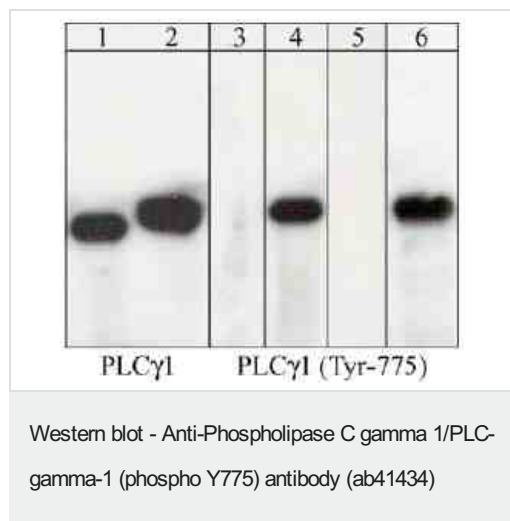
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab41434 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Detects a band of approximately 150 kDa (predicted molecular weight: 150 kDa).

Target

Function	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.
Sequence similarities	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.
Domain	The SH3 domain mediates interaction with CLNK (By similarity). The SH3 domain also mediates interaction with RALGPS1.
Post-translational modifications	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.
Cellular localization	Cell projection > lamellipodium. Cell projection > ruffle. Rapidly redistributed to ruffles and lamellipodia structures in response to epidermal growth factor (EGF) treatment.

Images



Western blot analysis of Phospholipase C gamma 1/PLC-gamma-1 immunoprecipitates from human jurkat cells untreated (lanes 1 & 3) or treated with pervanadate (1 mM) for 30 min (lanes 2, 4, 5 & 6). Immunoprecipitation was performed with monoclonal anti-Phospholipase C gamma 1/PLC-gamma-1. The blots were probed with anti- Phospholipase C gamma 1/PLC-gamma-1 (lanes 1 & 2) and anti-Phospholipase C gamma 1/PLC-gamma-1 (Tyr-775) (lanes 3-6). The latter antibody was used in the presence of phospho- Phospholipase C gamma 1/PLC-gamma-1 (Tyr-775) peptide (lane 5), or a non-specific phosphotyrosine peptide (lane 6).

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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