

Product datasheet

Anti-PLCG 2 (phospho Y1217) antibody [EP1404Y] ab52610

RabMAb

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Overview

Product name	Anti-PLCG 2 (phospho Y1217) antibody [EP1404Y]
Description	Rabbit monoclonal [EP1404Y] to PLCG 2 (phospho Y1217)
Host species	Rabbit
Specificity	ab52610 only detects PLCG2 phosphorylated on Tyrosine 1217.
Tested applications	Suitable for: WB, Dot blot Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Ramos and Raji cell lysates treated with pervanadate. IHC-P: Human lymph node tissue.
General notes	<p>Our RabMAb[®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents.</p> <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> <p>Mouse, Rat: We have preliminary internal testing data to indicate this antibody may not react with these species. Please contact us for more information.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.01% Sodium azide

Constituents: 9% PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA, 50% Tissue culture supernatant

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1404Y
Isotype	IgG

Applications

The Abpromise guarantee Our [Abpromise guarantee](#) covers the use of ab52610 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		1/50000. Detects a band of approximately 150 kDa (predicted molecular weight: 150 kDa).
Dot blot		1/1000.

Application notes Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

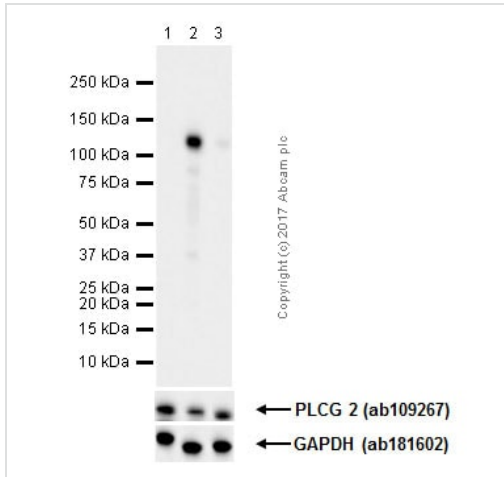
Target

Function 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. It is a crucial enzyme in transmembrane signaling.

Sequence similarities Contains 1 C2 domain.
Contains 1 PH domain.
Contains 1 PI-PLC X-box domain.
Contains 1 PI-PLC Y-box domain.
Contains 2 SH2 domains.
Contains 1 SH3 domain.

Post-translational modifications Phosphorylated on tyrosine residues; upon ligand-induced activation of a variety of growth factor receptors and immune system receptors. Increases phospholipase activity.

Images



Western blot - Anti-PLCG 2 (phospho Y1217) antibody [EP1404Y] (ab52610)

All lanes : Anti-PLCG 2 (phospho Y1217) antibody [EP1404Y] (ab52610) at 1/1000 dilution

Lane 1 : Ramos (human Burkitt's lymphoma B lymphocyte) whole cell lysate

Lane 2 : Ramos treated with 1mM pervanadate for 30 min whole cell lysate

Lane 3 : Ramos treated with 1mM pervanadate for 30 min whole cell lysate. Then the membrane was incubated with alkaline phosphatase.

Lysates/proteins at 10 µg per lane.

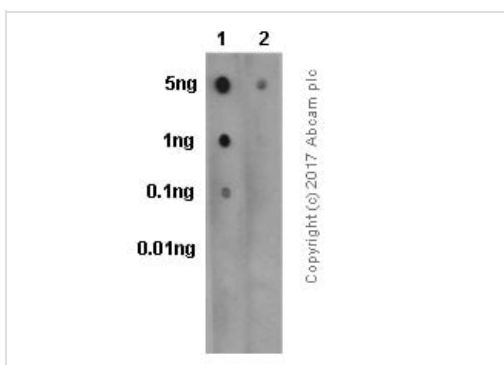
Secondary

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

Predicted band size: 150 kDa

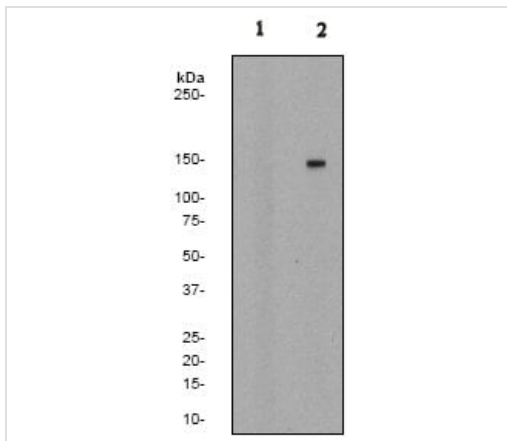
Observed band size: 150 kDa

Blocking and dilution buffer: 5% NFDN/TBST.



Dot Blot - Anti-PLCG 2 (phospho Y1217) antibody [EP1404Y] (ab52610)

Dot blot analysis of PLCG 2 (phospho Y1217) phospho peptide (Lane 1) and PLCG 2 phospho peptide (Lane 2) labelling PLCG 2 (phospho Y1217) with ab52610 at a dilution of 1/1000. A Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) was used as the secondary antibody at a dilution of 1/20,000 dilution. Blocking buffer: 5% NFDN/TBST. Dilution buffer: 5% NFDN/TBST.



Western blot - Anti-PLCG 2 (phospho Y1217) antibody [EP1404Y] (ab52610)

All lanes : Anti-PLCG 2 (phospho Y1217) antibody [EP1404Y] (ab52610) at 1/50000 dilution

Lane 1 : Raji cell lysate (untreated)

Lane 2 : Raji cell lysate treated with pervanadate

Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 150 kDa

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