

Product datasheet

Anti-PLCG 2 (phospho Y759) antibody [EP1406Y] ab51020

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [1 References](#) [2 Images](#)

Overview

Product name	Anti-PLCG 2 (phospho Y759) antibody [EP1406Y]
Description	Rabbit monoclonal [EP1406Y] to PLCG 2 (phospho Y759)
Host species	Rabbit
Tested applications	Suitable for: ICC/IF, WB Unsuitable for: Flow Cyt
Species reactivity	Reacts with: Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	Raji cell lysate.
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 -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1406Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab51020 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
ICC/IF		1/50 - 1/100.
WB	★★★★★ (1)	1/50000 - 1/100000. Detects a band of approximately 150 kDa (predicted molecular weight: 148 kDa).

Application notes Is unsuitable for Flow Cyt.

Target

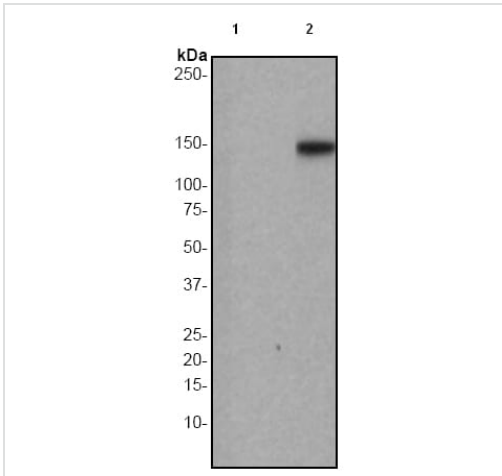
Function The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. It is a crucial enzyme in transmembrane signaling.

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 Y759) antibody [EP1406Y] (ab51020)

All lanes : Anti-PLCG 2 (phospho Y759) antibody [EP1406Y] (ab51020) at 1/100000 dilution

Lane 1 : Raji cell lysate, untreated

Lane 2 : Raji cell lysate, treated with pervanadate

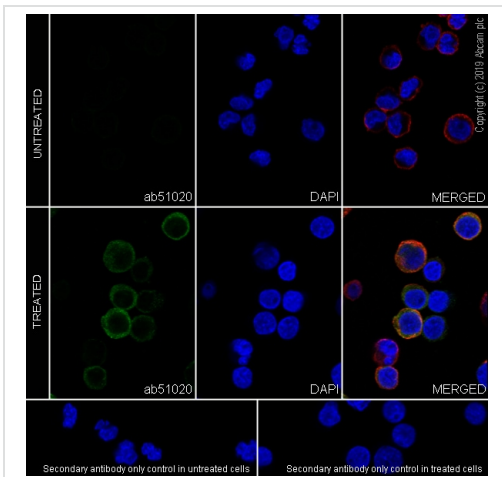
Lysates/proteins at 10 µg per lane.

Secondary

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

Predicted band size: 148 kDa

Observed band size: 150 kDa



Immunocytochemistry/ Immunofluorescence - Anti-PLCG 2 (phospho Y759) antibody [EP1406Y] (ab51020)

Immunocytochemistry analysis of Raji (human Burkitt's lymphoma B lymphocyte) labeling PLCG 2 with purified ab51020 at 1/50 dilution (4 µg/ml). Cells were fixed with 4% Paraformaldehyde and permeabilised with 0.1% tritonX-100. Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) at 1/1000 (2 µg/ml) was used as the secondary antibody. **ab195889** Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.12 µg/ml) was used as counterstain. Nuclei were stained blue with DAPI. Negative control: PBS instead of the primary antibody.

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

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