abcam

Product datasheet

Anti-Phospholipase C gamma 1/PLC-gamma-1 antibody [EPR5358] ab109501

KO 評価済 リコンビナント RabMAb

画像数 5

製品の概要

製品名	Anti-Phospholipase C gamma 1/PLC-gamma-1 antibody [EPR5358]
製品の詳細	Rabbit monoclonal [EPR5358] to Phospholipase C gamma 1/PLC-gamma-1
由来種	Rabbit
アプリケーション	**適用あり:** Flow Cyt (Intra), WB **適用なし:** ICC/IF,IHC-P or IP
種交差性	**交差種:** Mouse, Human **交差が予測される動物種:** Rat
免疫原	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
ポジティブ・コントロール	WB: HEK293-T, HepG2, Jurkat, and MCF-7 cell lysates. Flow Cyt (intra): Jurkat cells.
特記事項	This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	pH: 7.20 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 40% Glycerol (glycerin, glycerine), 0.5% BSA
精製度	Protein A purified
ポリ/モノ	モノクローナル
クローン名	EPR5358

アイソタイプ	IgG

アプリケーション

The Abpromise guarantee **Abpromise保証は、次のテスト済みアプリケーションにおけるab109501の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
Flow Cyt (Intra)		1/10 - 1/100. **ab172730** - Rabbit monoclonal IgG, is suitable for use as an isotype control with this antibody.
WB		1/1000 - 1/10000. Predicted molecular weight: 149 kDa.

追加情報 Is unsuitable for ICC/IF,IHC-P or IP.

ターゲット情報

機能 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.

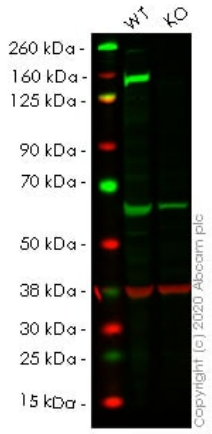
配列類似性
Contains 1 C2 domain.
Contains 1 EF-hand domain.
Contains 2 PH domains.
Contains 1 PI-PLC X-box domain.
Contains 1 PI-PLC Y-box domain.
Contains 2 SH2 domains.
Contains 1 SH3 domain.

ドメイン The SH3 domain mediates interaction with CLNK (By similarity). The SH3 domain also mediates interaction with RALGPS1.

翻訳後修飾 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.

細胞内局在 Cell projection > lamellipodium. Cell projection > ruffle. Rapidly redistributed to ruffles and lamellipodia structures in response to epidermal growth factor (EGF) treatment.

画像



Western blot - Anti-Phospholipase C gamma 1/PLC-gamma-1 antibody [EPR5358] (ab109501)

All lanes : Anti-Phospholipase C gamma 1/PLC-gamma-1 antibody [EPR5358] (ab109501) at 1/1000 dilution

Lane 1 : Wild-type HEK-293T cell lysate
Lane 2 : PLCG1 knockout HEK-293T cell lysate

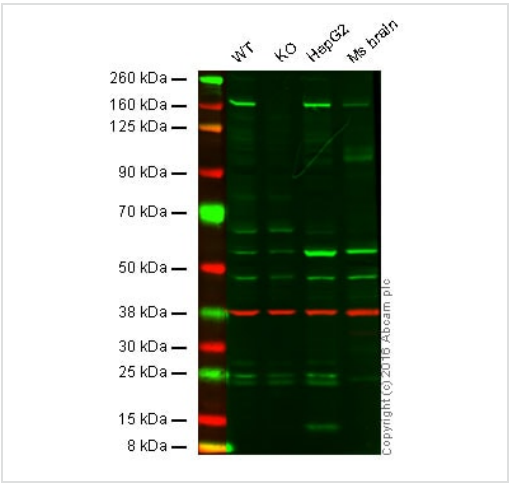
Lysates/proteins at 40 µg/ml per lane.

Secondary
All lanes : Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) at 1/20000 dilution

Predicted band size: 149 kDa

Lanes 1- 2: Merged signal (red and green). Green - ab109501 observed at 160 kDa. Red - Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) observed at 37 kDa.

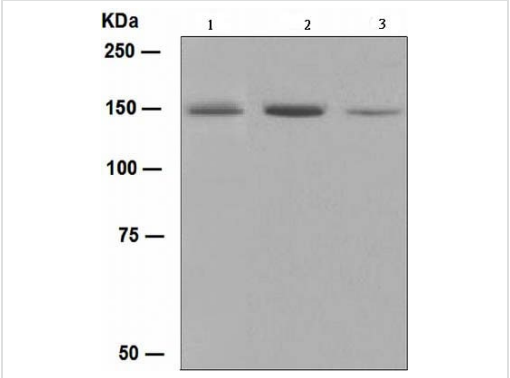
ab109501 was shown to react with Phospholipase C gamma 1/PLC-gamma-1 in wild-type HEK-293T cells in western blot. Loss of signal was observed when knockout cell line **ab266530** (knockout cell lysate **ab257590**) was used. Wild-type HEK-293T and PLCG1 knockout HEK-293T cell lysates were subjected to SDS-PAGE. Membrane was blocked for 1 hour at room temperature in 0.1% TBST with 3% non-fat dried milk. ab109501 and Anti-GAPDH antibody [6C5] - Loading Control (**ab8245**) were incubated overnight at 4°C at a 1 in 1000 dilution and a 1 in 20000 dilution respectively. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed (**ab216773**) and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed (**ab216776**) secondary antibodies at 1 in 20000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Phospholipase C gamma 1/PLC-gamma-1 antibody [EPR5358] (ab109501)

Lane 1: Wild-type HAP1 cell lysate (20 µg)
Lane 2: Phospholipase C gamma 1 / PLC-gamma-1 knockout HAP1 cell lysate (20 µg)
Lane 3: HepG2 cell lysate (20 µg)
Lane 4: Mouse brain tissue lysate (20 µg)
Lanes 1 - 4: Merged signal (red and green). Green - ab109501 observed at 160 kDa. Red - loading control, **ab8245**, observed at 37 kDa.

ab109501 was shown to recognize Phospholipase C gamma 1 / PLC-gamma-1 when Phospholipase C gamma 1 / PLC-gamma-1 knockout samples were used, along with additional cross-reactive bands. Wild-type and Phospholipase C gamma 1 / PLC-gamma-1 knockout samples were subjected to SDS-PAGE. ab109501 at a dilution of 1/1000 and **ab8245** (loading control to GAPDH) at a dilution of 1/10000 were incubated overnight at 4°C. Blots were developed with Goat anti-Rabbit IgG H&L (IRDye® 800CW) preadsorbed **ab216773** and Goat anti-Mouse IgG H&L (IRDye® 680RD) preadsorbed **ab216776** secondary antibodies at 1/10000 dilution for 1 hour at room temperature before imaging.



Western blot - Anti-Phospholipase C gamma 1/PLC-gamma-1 antibody [EPR5358] (ab109501)

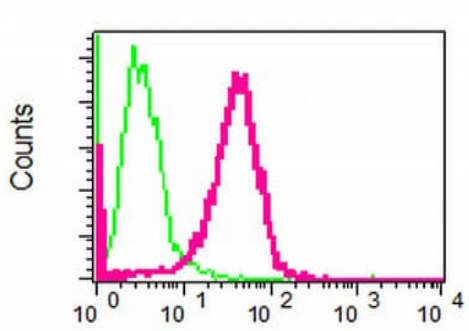
All lanes : Anti-Phospholipase C gamma 1/PLC-gamma-1 antibody [EPR5358] (ab109501) at 1/1000 dilution

Lane 1 : HepG2 cell lysate
Lane 2 : Jurkat cell lysate
Lane 3 : MCF-7 cell lysates

Lysates/proteins at 10 µg per lane.

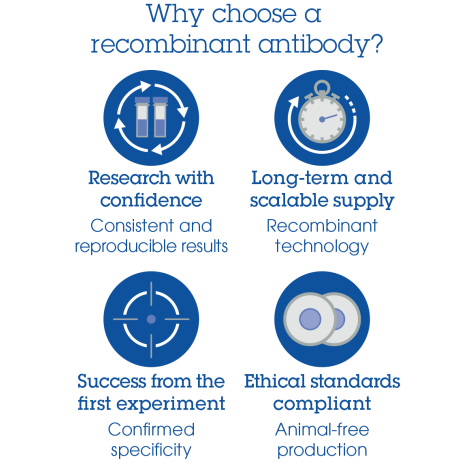
Secondary
All lanes : Standard HRP labelled goat anti-rabbit at 1/2000 dilution

Predicted band size: 149 kDa



Flow Cytometry (Intracellular) - Anti-Phospholipase C gamma 1/PLC-gamma-1 antibody [EPR5358] (ab109501)

Intracellular flow cytometric analysis of permeabilized Jurkat cells using ab109501 at 1/10 dilution (red)or a rabbit IgG (negative) (green).



Anti-Phospholipase C gamma 1/PLC-gamma-1 antibody [EPR5358] (ab109501)

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