

Anti-PLC beta 3 Antibody
Rabbit polyclonal antibody to PLC beta 3
Catalog # AP61288

Specification

Anti-PLC beta 3 Antibody - Product Information

Application	WB, IF
Primary Accession	Q01970
Other Accession	P51432
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	138799

Anti-PLC beta 3 Antibody - Additional Information

Gene ID 5331

Other Names

1-phosphatidylinositol 45-bisphosphate phosphodiesterase beta-3; Phosphoinositide phospholipase C-beta-3; Phospholipase C-beta-3; PLC-beta-3

Target/Specificity

Recognizes endogenous levels of PLC beta 3 protein.

Dilution

WB~~WB (1/500 - 1/1000), IH (1/50 - 1/200), IF/IC (1/100 - 1/500)
IF~~WB (1/500 - 1/1000), IH (1/50 - 1/200), IF/IC (1/100 - 1/500)

Format

Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.09% (W/V) sodium azide.

Storage

Store at -20 °C. Stable for 12 months from date of receipt

Anti-PLC beta 3 Antibody - Protein Information

Name PLCB3 {ECO:0000312|EMBL:AAA77683.1}

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 (PubMed:29122926, PubMed:9188725). In neutrophils, participates in a phospholipase C-activating N-formyl peptide-activated GPCR (G protein- coupled receptor) signaling pathway by promoting RASGRP4 activation by DAG, to promote neutrophil functional responses (By similarity).

Cellular Location

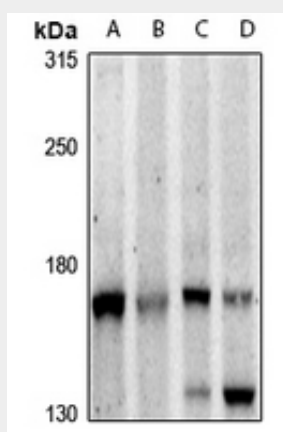
Cytoplasm. Membrane {ECO:0000250|UniProtKB:Q99JE6}. Nucleus {ECO:0000250|UniProtKB:P51432} Note=And particulate fractions. {ECO:0000250|UniProtKB:Q99JE6}

Anti-PLC beta 3 Antibody - Protocols

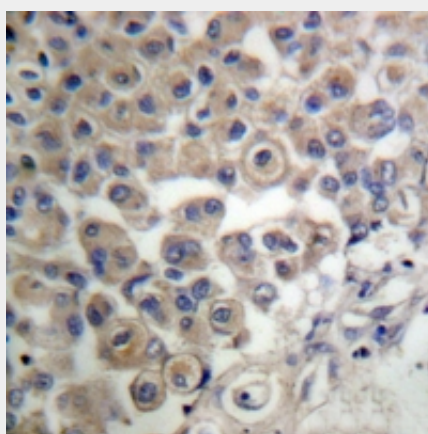
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Anti-PLC beta 3 Antibody - Images



Western blot analysis of PLC beta 3 expression in HCT116 (A), Beas2B (B), PMVEC (C), CT26 (D) whole cell lysates.



Immunohistochemical analysis of PLC beta 3 staining in human breast cancer formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at

room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunofluorescent analysis of PLC beta 3 staining in A549 cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 °C in a humidified chamber. Cells were washed with PBST and incubated with a Alexa Fluor 594-conjugated secondary antibody (red) in PBS at room temperature in the dark.

Anti-PLC beta 3 Antibody - Background

KLH-conjugated synthetic peptide encompassing a sequence within the center region of human PLC beta 3. The exact sequence is proprietary.

Anti-PLC beta 3 Antibody - Citations

- [Morphine- and foot shock-responsive neuronal ensembles in the VTA possess different connectivity and biased GPCR signaling pathway](#)