

# PLC $\beta$ 3 (phospho Ser537) Polyclonal Antibody

Catalog # AP67639

## Product Information

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<b>Application</b>	WB, IHC-P, IF, ICC, E
<b>Primary Accession</b>	<a href="#">Q01970</a>
<b>Reactivity</b>	Human, Mouse, Rat
<b>Host</b>	Rabbit
<b>Clonality</b>	Polyclonal
<b>Calculated MW</b>	138799

## Additional Information

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<b>Gene ID</b>	5331
<b>Other Names</b>	PLCB3; 1-phosphatidylinositol 4; 5-bisphosphate phosphodiesterase beta-3; Phosphoinositide phospholipase C-beta-3; Phospholipase C-beta-3; PLC-beta-3
<b>Dilution</b>	WB~~Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/10000. Not yet tested in other applications. IHC-P~~N/A IF~~1:50~200 ICC~~N/A E~~N/A
<b>Format</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
<b>Storage Conditions</b>	-20°C

## Protein Information

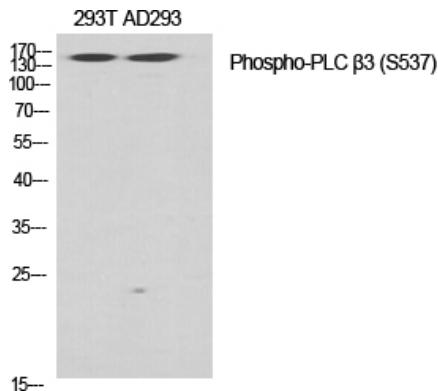
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<b>Name</b>	PLCB3 {ECO:0000303   PubMed:20966218, ECO:0000312   EMBL:AAA77683.1}
<b>Function</b>	Catalyzes the production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) (PubMed: <a href="#">20966218</a> , PubMed: <a href="#">29122926</a> , PubMed: <a href="#">37991948</a> , PubMed: <a href="#">9188725</a> ). Key transducer of G protein-coupled receptor signaling: activated by G(q)/G(11) G alpha proteins downstream of G protein-coupled receptors activation (PubMed: <a href="#">20966218</a> , PubMed: <a href="#">37991948</a> ). 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).
<b>Cellular Location</b>	Cytoplasm. Membrane {ECO:0000250   UniProtKB:Q99JE6}. Nucleus {ECO:0000250   UniProtKB:P51432} Note=And particulate fractions. {ECO:0000250   UniProtKB:Q99JE6}

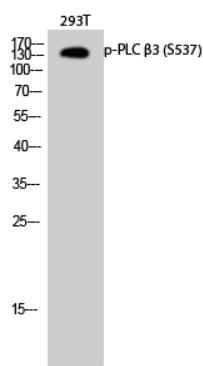
## Background

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.

## Images



Western Blot analysis of various cells using Phospho-PLC  $\beta$ 3 (S537) Polyclonal Antibody diluted at 1 : 500



Western Blot analysis of 293T cells using Phospho-PLC  $\beta$ 3 (S537) Polyclonal Antibody diluted at 1 : 500

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.