

PLC beta 3 (pS537) Antibody

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP51634

Product Information

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

Additional Information

Gene ID	5331
Other Names	1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase beta-3, Phosphoinositide phospholipase C-beta-3, Phospholipase C-beta-3, PLC-beta-3, PLCB3
Dilution	WB~~1:1000
Format	0.01M PBS, pH 7.2, 0.09% (W/V) Sodium azide, Glycerol 50%
Storage	Store at -20 °C.Stable for 12 months from date of receipt

Protein Information

Name	PLCB3 {ECO:0000303 PubMed:20966218, ECO:0000312 EMBL:AAA77683.1}
Function	Catalyzes the production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) (PubMed: 20966218 , PubMed: 29122926 , PubMed: 37991948 , PubMed: 9188725). 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: 20966218 , PubMed: 37991948). 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}

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.

References

- Mazuruk K.,et al.Biochem. Biophys. Res. Commun. 212:190-195(1995).
Lagercrantz J.,et al.Genomics 26:467-472(1995).
Taylor T.D.,et al.Nature 440:497-500(2006).
Mural R.J.,et al.Submitted (JUL-2005) to the EMBL/GenBank/DDBJ databases.
Carozzi A.J.,et al.Eur. J. Biochem. 210:521-529(1992).

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