

PLCB3 Antibody (N-Term)

Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP22155a

Product Information

Application	WB, E
Primary Accession	Q01970
Other Accession	P51432 , Q99JE6
Reactivity	Human, Rat, Mouse
Predicted	Mouse, Rat
Host	Rabbit
Clonality	polyclonal
Isotype	Rabbit IgG
Clone Names	RB56188
Calculated MW	138799

Additional Information

Gene ID	5331
Other Names	1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase beta-3, 3.1.4.11, Phosphoinositide phospholipase C-beta-3, Phospholipase C-beta-3, PLC-beta-3, PLCB3
Target/Specificity	This PLCB3 antibody is generated from a rabbit immunized with a KLH conjugated synthetic peptide between 16-50 amino acids from human PLCB3.
Dilution	WB~~1:2000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.
Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	PLCB3 Antibody (N-Term) is for research use only and not for use in diagnostic or therapeutic procedures.

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}

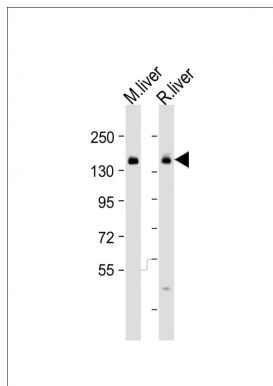
Background

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).

Images



All lanes : Anti-PLCB3 Antibody (N-Term) at 1:2000 dilution
Lane 1: mouse liver lysate
Lane 2: rat liver lysate
Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 139 kDa
Blocking/Dilution buffer: 5% NFDM/TBST.

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