

PLCB3 Antibody

Rabbit mAb Catalog # AP92439

Product Information

ApplicationWB, IHCPrimary AccessionQ01970ReactivityHumanClonalityMonoclonal

Other Names Phosphoinositide phospholipase C; Phospholipase C beta 3; PLC beta 3; Plcb3;

IsotypeRabbit IgGHostRabbitCalculated MW138799

Additional Information

Dilution WB 1:500~1:2000 IHC 1:50~1:200

Purification Affinity-chromatography

Immunogen A synthesized peptide derived from human PLCB3

Description 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.

Storage Condition and Buffer Rabbit IgG in phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium

azide and 50% glycerol. Store at +4°C short term. Store at -20°C long term.

Avoid freeze / thaw cycle.

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:<u>29122926</u>, PubMed:<u>37991948</u>, PubMed:<u>9188725</u>). 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:<u>20966218</u>,

PubMed: <u>37991948</u>). 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

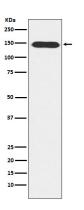
neutrophil functional responses (By similarity).

Cellular Location Cytoplasm. Membrane {ECO:0000250|UniProtKB:O99IE6}. Nucleus

{ECO:0000250|UniProtKB:P51432} Note=And particulate fractions.

{ECO:0000250 | UniProtKB:Q99JE6}

Images



Western blot analysis of PLCB3 expression in A431 cell lysate.

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