

Anti-PLCB1 Picoband Antibody
Catalog # ABO12037**Specification**

Anti-PLCB1 Picoband Antibody - Product Information

Application	WB
Primary Accession	Q9NQ66
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Format	Lyophilized

Description

Rabbit IgG polyclonal antibody for 1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1(PLCB1) detection. Tested with WB in Human;Mouse;Rat.

Reconstitution

Add 0.2ml of distilled water will yield a concentration of 500ug/ml.

Anti-PLCB1 Picoband Antibody - Additional Information

Gene ID 23236

Other Names

1-phosphatidylinositol 4, 5-bisphosphate phosphodiesterase beta-1, 3.1.4.11, PLC-154, Phosphoinositide phospholipase C-beta-1, Phospholipase C-I, PLC-I, Phospholipase C-beta-1, PLC-beta-1, PLCB1, KIAA0581

Calculated MW

138567 MW KDa

Application Details

Western blot, 0.1-0.5 µg/ml, Human, Mouse, Rat

Subcellular Localization

Nucleus membrane . Cytoplasm . Colocalizes with the adrenergic receptors, ADREN1A and ADREN1B, at the nuclear membrane of cardiac myocytes. .

Protein Name

1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-1

Contents

Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.

Immunogen

E.coli-derived human PLCB1 recombinant protein (Position: V888-E1059). Human PLCB1 shares 99% amino acid (aa) sequence identity with both mouse and rat PLCB1.

Purification

Immunogen affinity purified.

Cross Reactivity

No cross reactivity with other proteins

Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for a longer time. Avoid repeated freezing and thawing.

Sequence Similarities

Contains 1 C2 domain.

Anti-PLCB1 Picoband Antibody - Protein Information

Name PLCB1 ([HGNC:15917](#))

Synonyms KIAA0581

Function

Catalyzes the hydrolysis of 1-phosphatidylinositol 4,5- biphosphate into diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) and mediates intracellular signaling downstream of G protein-coupled receptors (PubMed: <http://www.uniprot.org/citations/9188725> target="_blank">9188725). Regulates the function of the endothelial barrier.

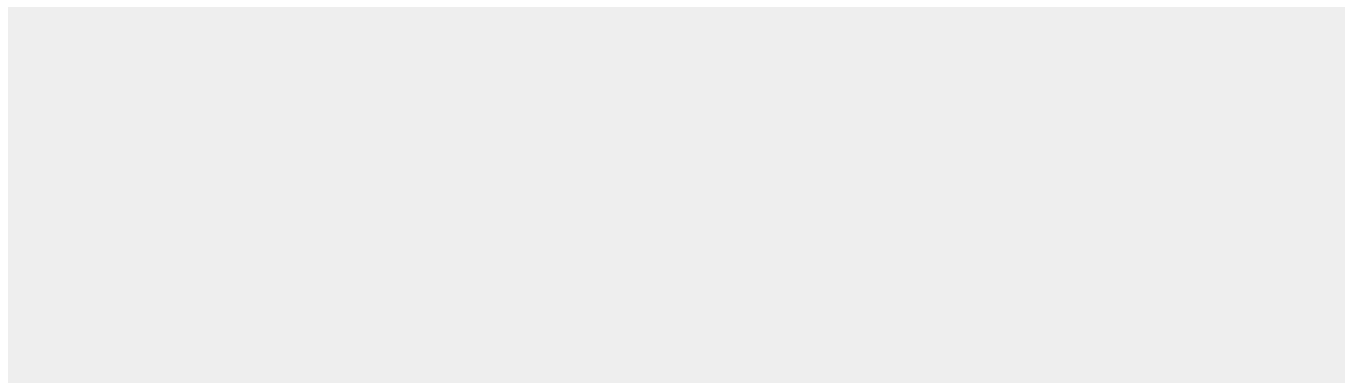
Cellular Location

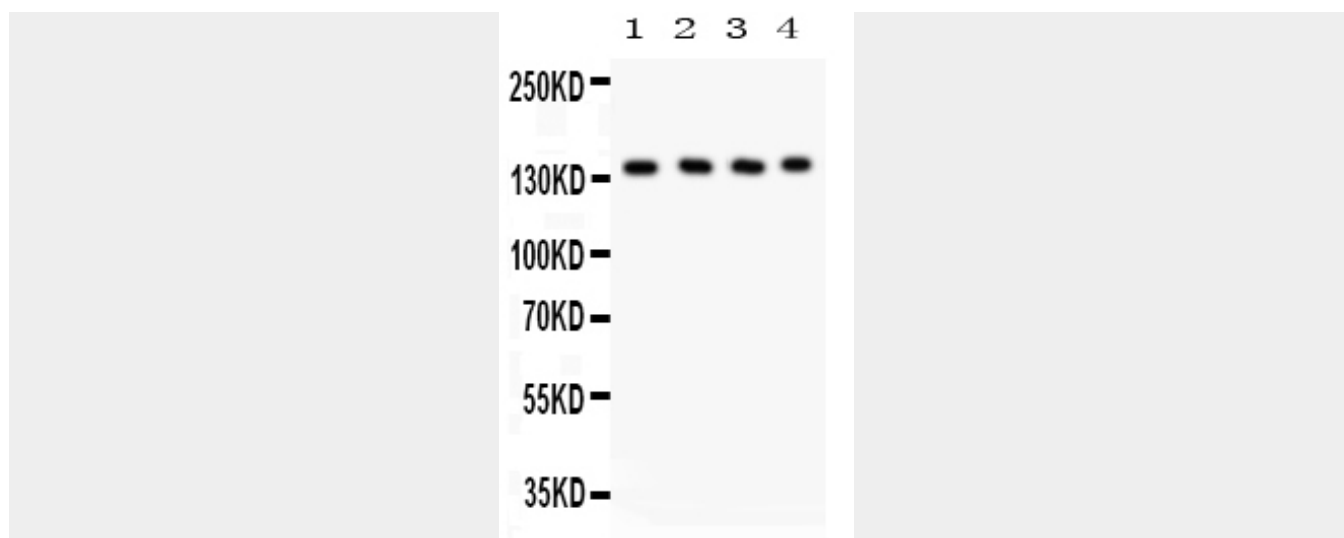
Nucleus membrane {ECO:0000250|UniProtKB:Q9Z1B3}. Cytoplasm {ECO:0000250|UniProtKB:P10687}. Note=Colocalizes with the adrenergic receptors, ADREN1A and ADREN1B, at the nuclear membrane of cardiac myocytes. {ECO:0000250|UniProtKB:Q9Z1B3}

Anti-PLCB1 Picoband 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-PLCB1 Picoband Antibody - Images



Anti- PLCB1 Picoband antibody, ABO12037, Western blotting All lanes: Anti PLCB1 (ABO12037) at 0.5ug/ml Lane 1: Rat Brain Tissue Lysate at 50ug Lane 2: Mouse Brain Tissue Lysate at 50ug Lane 3: Mouse Testis Tissue Lysate at 50ug Lane 4: Human Placenta Tissue Lysate at 50ug Predicted bind size: 139KD Observed bind size: 139KD

Anti-PLCB1 Picoband Antibody - Background

PLCB1 is also known as PLC-I, EIEE12 or PLC154. The protein encoded by this gene catalyzes the formation of inositol 1,4,5-trisphosphate and diacylglycerol from phosphatidylinositol 4,5-bisphosphate. This reaction uses calcium as a cofactor and plays an important role in the intracellular transduction of many extracellular signals. This gene is activated by two G-protein alpha subunits, alpha-q and alpha-11. Two transcript variants encoding different isoforms have been found for this gene.