GDPD2 polyclonal antibody

Catalog: BS35071 Host: Rabbit Reactivity: Human, Mouse

BackGround:

Glycerophosphodiester phosphodiesterase 3: Calcium-dependent ecto-phospholipase C that cleaves the phosphodiester bond between the glycerol backbone and phosphate group of glycerophospholipids at the cell surface, regulating multiple signaling pathways . Substrates include GPI-anchored proteins, which are released from the membrane upon cleavage of the inositol-phosphate linkage. For example, cleavage and release of UPAR/PLAUR regulates cell-matrix adhesion and extracellular matrix remodeling . Also cleaves the glycosylphosphatidylinositol (GPI) anchor of metalloproteases TRABD2A and TRABD2B, releasing them from the plasma membrane. This release modulates their regulation of Wnt signaling . Also hydrolyzes lysophosphatidylinositol (LPI) to monoacylglycerol and inositol-1-phosphate. Converts 2-arachidonoyl-LPI, the endogenous GPR55 agonist, into 2-arachidonoylglycerol (2-AG), an endocannabinoid that activates CNR1/CNR2. Thereby...

Product:

1mg/ml in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.

Molecular Weight:

~61.7 kDa

Swiss-Prot:

Q9HCC8

Purification&Purity:

The antibody was purified by immunogen affinity chromatography.

Applications:

WB (1/500 - 1/1000)

Storage&Stability:

Store at 4℃ short term. Aliquot and store at -20℃ long term. Avoid freeze-thaw cycles.

Specificity:

Recognizes endogenous levels of GDPD2 protein

DATA:

Western blot analysis of ACADM expression in A549 (A) whole cell lysates.

Immunohistochemical analysis of ACADM staining in human brain formalin fixed paraffin embedded tissue section. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH 6.0). The section was then incubated with the antibody at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.

Immunofluorescent analysis of ACADM staining in Hela cells. Formalin-fixed cells were permeabilized with 0.1% Triton X-100 in TBS for 5-10 minutes and blocked with 3% BSA-PBS for 30 minutes at room temperature. Cells were probed with the primary antibody in 3% BSA-PBS and incubated overnight at 4 ℃ in a hidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. DAPI was used to stain the cell nuclei (blue).

Note:

For research use only, not for use in diagnostic procedure.

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