

Anti-PI3K C2 gamma Antibody

Catalog # AP59662

Product Information

Application	WB, IHC, IF/IC
Primary Accession	O75747
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Calculated MW	170682

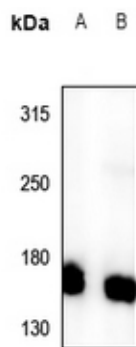
Additional Information

Gene ID	5288
Other Names	Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit gamma; PI3K-C2-gamma; PtdIns-3-kinase C2 subunit gamma; Phosphoinositide 3-kinase-C2-gamma
Target/Specificity	KLH-conjugated synthetic peptide encompassing a sequence within the N-term region of human PI3K C2 gamma. The exact sequence is proprietary.
Dilution	WB~~WB (1/500 - 1/1000) IHC~~1:100~500 IF/IC~~N/A
Format	Liquid in 0.42% Potassium phosphate, 0.87% Sodium chloride, pH 7.3, 30% glycerol, and 0.01% sodium azide.
Storage	Store at -20 °C.Stable for 12 months from date of receipt

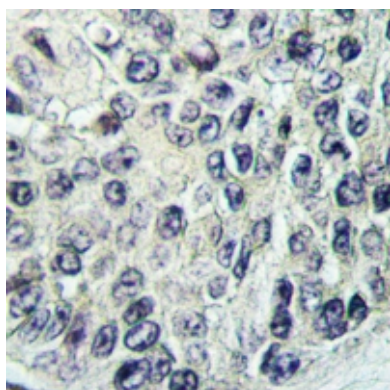
Protein Information

Name	PIK3C2G
Function	Generates phosphatidylinositol 3-phosphate (PtdIns3P) and phosphatidylinositol 3,4-bisphosphate (PtdIns(3,4)P2) that act as second messengers (By similarity). May play a role in SDF1A-stimulated chemotaxis (By similarity).
Cellular Location	Membrane {ECO:0000250 UniProtKB:O70167}; Peripheral membrane protein {ECO:0000250 UniProtKB:O70167}
Tissue Location	Highly expressed in liver, prostate and testis. Lower levels in small intestine, kidney and pancreas

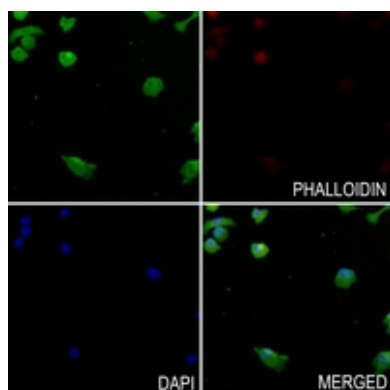
Images



Western blot analysis of PI3K C2 gamma expression in PC3 (A), HepG2 (B) whole cell lysates. (Predicted band size: 165 kD; Observed band size: 165 kD)



Immunohistochemical analysis of PI3K C2 gamma staining in human lung cancer 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 PI3K C2 gamma staining in PANC1 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 °C in a humidified chamber. Cells were washed with PBST and incubated with a AF488-conjugated secondary antibody (green) in PBS at room temperature in the dark. Phalloidin - AF594 was used to stain Actin filaments (red). DAPI was used to stain the cell nuclei (blue).

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