

PI3KC2G Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab) Catalog # AP8012a

Specification

PI3KC2G Antibody (N-term) - Product Information

Application IHC-P, WB,E **Primary Accession** 075747 Reactivity Human **Rabbit** Host Clonality **Polyclonal** Isotype Rabbit IgG Calculated MW 170682 Antigen Region 93-123

PI3KC2G Antibody (N-term) - 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, PIK3C2G

Target/Specificity

This PI3KC2G antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 93-123 amino acids from the N-terminal region of human PI3KC2G.

Dilution

IHC-P~~1:50~100 WB~~1:1000

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

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

PI3KC2G Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

PI3KC2G Antibody (N-term) - Protein Information

Name PIK3C2G





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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:070167}; Peripheral membrane protein {ECO:0000250|UniProtKB:070167}

Tissue Location

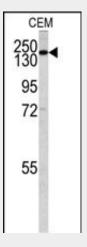
Highly expressed in liver, prostate and testis. Lower levels in small intestine, kidney and pancreas

PI3KC2G Antibody (N-term) - Protocols

Provided below are standard protocols that you may find useful for product applications.

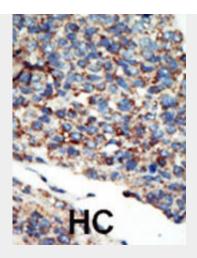
- Western Blot
- Blocking Peptides
- Dot Blot
- <u>Immunohistochemistry</u>
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PI3KC2G Antibody (N-term) - Images



Western blot analysis of PI3KC2G antibody (N-term) (Cat.# AP8012a) in CEM cell line lysates (35ug/lane). PI3KC2G (arrow) was detected using the purified Pab.





Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

PI3KC2G Antibody (N-term) - Background

PI3KC2G belongs to the phosphoinositide 3-kinase (PI3K) family. PI3-kinases play roles in signaling pathways involved in cell proliferation, oncogenic transformation, cell survival, cell migration, and intracellular protein trafficking. This protein contains a lipid kinase catalytic domain as well as a C-terminal C2 domain, a characteristic of class II PI3-kinases. C2 domains act as calcium-dependent phospholipid binding motifs that mediate translocation of proteins to membranes, and may also mediate protein-protein interactions. The biological function of this gene has not yet been determined.

PI3KC2G Antibody (N-term) - References

Rozycka, M., et al., Genomics 54(3):569-574 (1998).