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PI3KC2G Antibody (N-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP8012a

Product Information

Application	WB, IHC-P, E
Primary Accession	O75747
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB1685-1686
Calculated MW	170682
Antigen Region	93-123

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	WB~~1:1000 IHC-P~~1:100~500 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.

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

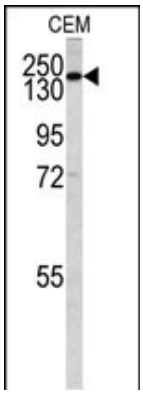
Background

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.

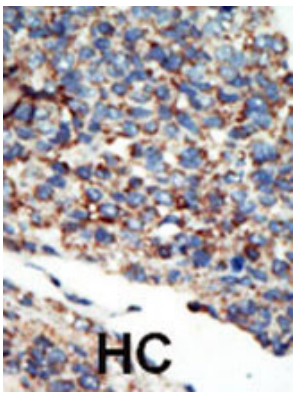
References

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

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.