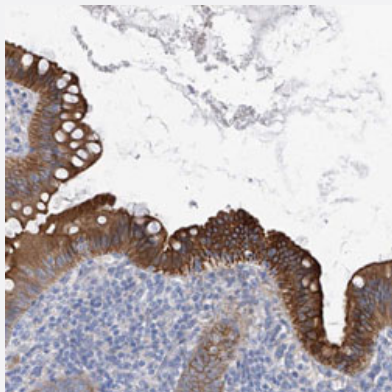


PIK3C2B polyclonal antibody

Catalog # PAB31154 Size 100 uL

Applications



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Immunohistochemical staining (Formalin-fixed paraffin-embedded sections) of human appendix with PIK3C2B polyclonal antibody (Cat # PAB31154) shows strong cytoplasmic and membrane positivity in glandular epithelium.

Specification

Product Description	Rabbit polyclonal antibody raised against partial recombinant human PIK3C2B.
Immunogen	Recombinant protein corresponding to human PIK3C2B.
Sequence	ITSALNQLPPCPSRMQPKIQKDPSVLAVRENREKVVVEALTAAILDLVELYCNTFNADFQTAVPGSR KHDLVQEACHFARSLAFTVYATHR
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Antigen affinity purification
Isotype	IgG
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:50-1:200) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS, pH 7.2 (40% glycerol, 0.02% sodium azide).

Storage Instruction

Store at 4°C for short term storage. For long term storage store at -20°C.
Aliquot to avoid repeated freezing and thawing.

Note

This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

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Gene Info — PIK3C2B

Entrez GeneID [5287](#)

Protein Accession# [O00750](#)

Gene Name PIK3C2B

Gene Alias C2-PI3K, DKFZp686G16234

Gene Description phosphoinositide-3-kinase, class 2, beta polypeptide

Omim ID [602838](#)

Gene Ontology [Hyperlink](#)

Gene Summary

The protein encoded by this gene 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 PI3-kinase activity of this protein is sensitive to low nanomolar levels of the inhibitor wortmanin. The C2 domain of this protein was shown to bind phospholipids but not Ca²⁺, which suggests that this enzyme may function in a calcium-independent manner. [provided by RefSeq]

Other Designations

OTTHUMP00000034333|PI3K-C2beta|PTDINS-3-kinase C2 beta|phosphatidylinositol 3-kinase C2 domain-containing beta polypeptide

Pathway

- [Inositol phosphate metabolism](#)

- [Metabolic pathways](#)
- [Phosphatidylinositol signaling system](#)

Disease

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Drug Toxicity](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Hypercholesterolemia](#)
- [Hypertension](#)
- [Prostatic Neoplasms](#)
- [Tobacco Use Disorder](#)