PIK3C2B polyclonal antibody

Catalog # PAB3207 Size 400 uL

Applications

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

Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with PIK3C2B polyclonal antibody (Cat # PAB3207) , which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic peptide of PIK3C2B.
Immunogen	A synthetic peptide (conjugated with KLH) corresponding to N-terminus of human PIK3C2B.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification
Recommend Usage	Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) (1:10-50) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. 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 shoul d be handled by trained staff only.

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

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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

Publication Reference

- Human phosphoinositide 3-kinase C2beta, the role of calcium and the C2 domain in enzyme activity.

  Arcaro A, Volinia S, Zvelebil MJ, Stein R, Watton SJ, Layton MJ, Gout I, Ahmadi K, Downward J, Waterfield MD.

  The Journal of Biological Chemistry 1998 Dec; 273(49):33082.

  Application : WB-Tr, Human, HEK 293 cells

- Identification and cDNA cloning of a novel mammalian C2 domain-containing phosphoinositide 3-kinase, HsC2-PI3K.

  Brown RA, Ho LK, Weber-Hall SJ, Shipley JM, Fry MJ.

  Biochemical and Biophysical Research Communications 1997 Apr; 233(2):537.

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