

**PI3KC2B Antibody (N-term)**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP8011a****Specification**

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**PI3KC2B Antibody (N-term) - Product Information**

Application	WB, IHC-P,E
Primary Accession	<a href="#">O00750</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	184768
Antigen Region	120-150

**PI3KC2B Antibody (N-term) - Additional Information****Gene ID** 5287**Other Names**

Phosphatidylinositol 4-phosphate 3-kinase C2 domain-containing subunit beta, PI3K-C2-beta, PtdIns-3-kinase C2 subunit beta, C2-PI3K, Phosphoinositide 3-kinase-C2-beta, PIK3C2B

**Target/Specificity**

This PI3KC2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 120-150 amino acids from the N-terminal region of human PI3KC2B.

**Dilution**

WB~~1:1000

IHC-P~~1:10~50

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**

PI3KC2B Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**PI3KC2B Antibody (N-term) - Protein Information****Name** PIK3C2B

**Function** Phosphorylates PtdIns and PtdIns4P with a preference for PtdIns (PubMed:[10805725](#), PubMed:[11533253](#), PubMed:[9830063](#)). Does not phosphorylate PtdIns(4,5)P2 (PubMed:[9830063](#)). May be involved in EGF and PDGF signaling cascades (PubMed:[10805725](#)).

**Cellular Location**

Microsome. Cell membrane. Cytoplasm, cytosol Nucleus. Endoplasmic reticulum. Note=Found mostly in the microsome, but also in the plasma membrane and cytosol. Nuclear in testis

**Tissue Location**

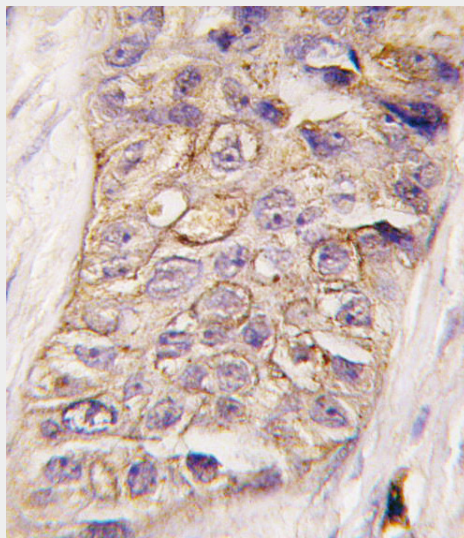
Expressed in columnar and transitional epithelia, mononuclear cells, and ganglion cells (at protein level). Widely expressed, with highest levels in thymus and placenta and lowest in peripheral blood, skeletal muscle and kidney

**PI3KC2B Antibody (N-term) - Protocols**

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**PI3KC2B Antibody (N-term) - Images**



Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with PI3KC2B antibody (N-term), 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.

**PI3KC2B Antibody (N-term) - Background**

Protein kinases are enzymes that transfer a phosphate group from a phosphate donor, generally the  $\gamma$  phosphate of ATP, onto an acceptor amino acid in a substrate protein. By this basic

mechanism, protein kinases mediate most of the signal transduction in eukaryotic cells, regulating cellular metabolism, transcription, cell cycle progression, cytoskeletal rearrangement and cell movement, apoptosis, and differentiation. With more than 500 gene products, the protein kinase family is one of the largest families of proteins in eukaryotes. The family has been classified in 8 major groups based on sequence comparison of their tyrosine (PTK) or serine/threonine (STK) kinase catalytic domains.

#### **PI3KC2B Antibody (N-term) - References**

Arcaro, A., et al., J. Biol. Chem. 273(49):33082-33090 (1998).  
Brown, R.A., et al., Biochem. Biophys. Res. Commun. 233(2):537-544 (1997).