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PIK4CB Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6948c

Specification

PIK4CB Antibody (Center) - Product Information

Application	**FC, IHC-P, WB,E**
Primary Accession	Q9UBF8
Other Accession	O08561, Q8BKC8, Q49GP3, O02810
Reactivity	**Human**
Predicted	**Bovine, Zebrafish, Mouse, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**91379**
Antigen Region	**519-548**

PIK4CB Antibody (Center) - Additional Information

Gene ID 5298

Other Names
Phosphatidylinositol 4-kinase beta, PI4K-beta, PI4Kbeta, PtdIns 4-kinase beta, NPIK, PI4K92, PI4KB, PIK4CB

Target/Specificity
This PIK4CB antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 519-548 amino acids from the Central region of human PIK4CB.

Dilution
FC~~1:10~50
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
PIK4CB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PIK4CB Antibody (Center) - Protein Information

Name PI4KB (HGNC:8984)

Synonyms PIK4CB

Function Phosphorylates phosphatidylinositol (PI) in the first committed step in the production of the second messenger inositol- 1,4,5,-trisphosphate (PIP). May regulate Golgi disintegration/reorganization during mitosis, possibly via its phosphorylation. Involved in Golgi-to-plasma membrane trafficking (By similarity) (PubMed:10559940, PubMed:11277933, PubMed:12749687, PubMed:9405935). May play an important role in the inner ear development.

Cellular Location
Endomembrane system. Mitochondrion outer membrane; Peripheral membrane protein. Rough endoplasmic reticulum membrane; Peripheral membrane protein. Golgi apparatus. Golgi apparatus membrane. Cytoplasm, perinuclear region. Note=Found in the outer membrane of mitochondria and membranes of the rough endoplasmic reticulum. Recruited to the Golgi complex by the small GTPase ARF to stimulate the synthesis of phosphatidylinositol 4,5- bisphosphate (PIP2) on the Golgi complex. Recruited to the Golgi apparatus membrane by ACBD3 (PubMed:24672044, PubMed:27009356, PubMed:28289207). GGA2 is also involved in the recruitment (PubMed:28289207).

Tissue Location
Widely expressed with highest levels in heart, skeletal muscle, pancreas, testis and ovary. Weakly expressed in liver (PubMed:9020160, PubMed:9405935, PubMed:9405938). Expressed in the innear ear in the epithelium of the spinal organ of corti

PIK4CB Antibody (Center) - Protocols

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

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PIK4CB Antibody (Center) - Images

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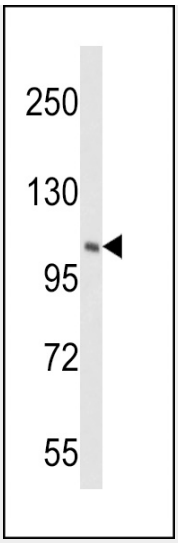
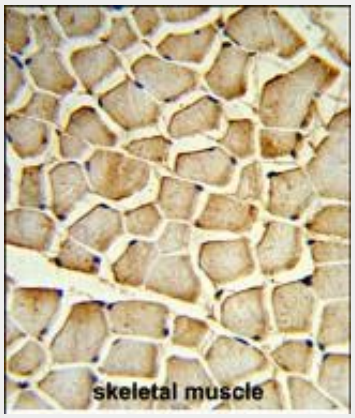
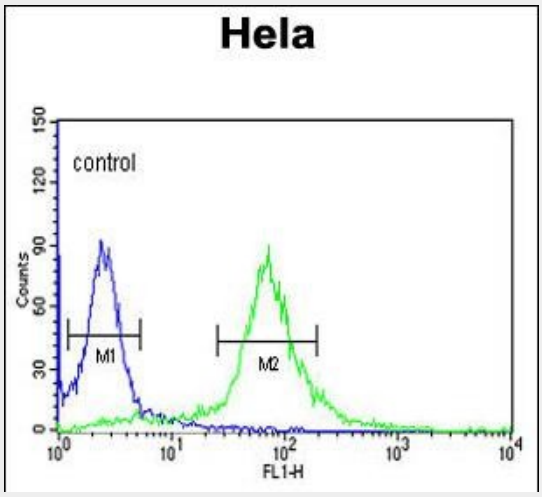


Western blot analysis of PIK4CB Antibody (Center) (Cat. #AP6948c) in Hela cell line lysates (35ug/lane). PIK4CB (arrow) was detected using the purified Pab.



Formalin-fixed and paraffin-embedded human skeletal muscle reacted with PIK4CB Antibody (Center), 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.



PIK4CB Antibody (Center) (Cat. #AP6948c) flow cytometric analysis of Hela cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary

antibodies were used for the analysis.

PIK4CB Antibody (Center) - Background

PIK4CB phosphorylates phosphatidylinositol (PI) in the first committed step in the production of the second messenger inositol-1,4,5,-trisphosphate (PIP). It may regulate Golgi disintegration/reorganization during mitosis, possibly via its phosphorylation.

PIK4CB Antibody (Center) - References

Jeganathan,S., et.al., Mol. Cell. Biol. 28 (14), 4549-4561 (2008) Pizarro-Cerda,J., et.al., Cell. Microbiol. 9 (10), 2381-2390 (2007)