10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

# PIK4CB Antibody (Center)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP6948c

## Product Information

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| **Application** | WB, IHC-P, FC, E |
| **Primary Accession** | Q9UBF8 |
| **Other Accession** | O08561, Q8BKC8, Q49GP3, O02810 |
| **Reactivity** | Human |
| **Predicted** | Mouse, Rat, Zebrafish, Bovine, Canine, Rabbit, Chicken |
| **Host** | Rabbit |
| **Clonality** | Polyclonal |
| **Isotype** | Rabbit IgG |
| **Clone Names** | RB18563 |
| **Calculated MW** | 91379 |
| **Antigen Region** | 519-548 |

## Additional Information

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| **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** | WB~~1:1000 IHC-P~~1:100~500 FC~~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** | PIK4CB Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures. |

## Protein Information

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| **Name** | PI4KB ( HGNC:8984) |
| **Synonyms** | PIK4CB |

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| **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 |

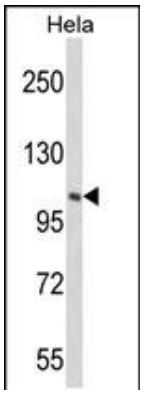
## Background

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.

## References

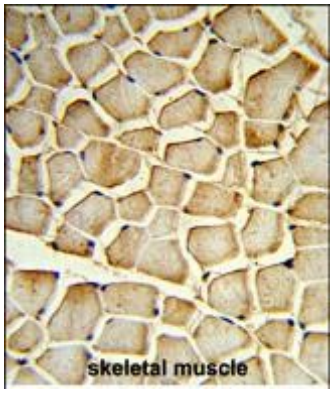
Jeganathan,S., et.al., Mol. Cell. Biol. 28 (14), 4549-4561 (2008) Pizarro-Cerda,J., et.al., Cell. Microbiol. 9 (10), 2381-2390 (2007)

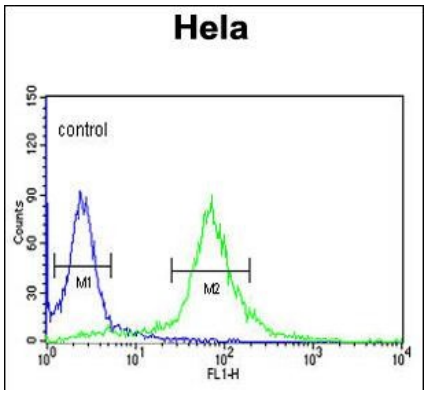
## Images




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.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.