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Product datasheet for TA397452

PIK3CB Rabbit Polyclonal Antibody

Product data:

Product Type:	Primary Antibodies
Applications:	ELISA, WB
Recommended Dilution:	**WB**: 1.0 ug/mL **ELISA**: 1:50,000
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Immunogen:	This affinity purified PIK3C-β antibody was prepared from whole rabbit serum produced by repeated immunizations with a synthetic peptide corresponding to an N-terminal region of human Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform.
Specificity:	Anti-PIK3C beta was affinity purified from monospecific antiserum by immunoaffinity chromatography. This antibody is specific for human PIK3C beta protein. A BLAST analysis was used to suggest cross-reactivity with PI3K-beta based on a 100% homology from human sources with the immunizing sequence. Expect partial cross reactivity to PIK3C beta from mouse and rat (93% homology) sources. Cross-reactivity with PIK3C beta from other sources has not been determined.
Formulation:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Concentration:	1.09 mg/ml - lot specific
Conjugation:	Unconjugated
Storage:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Stability:	Expiration date is one (1) year from date of receipt.
Gene Name:	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta
Database Link:	Entrez Gene 5291 Human P42338

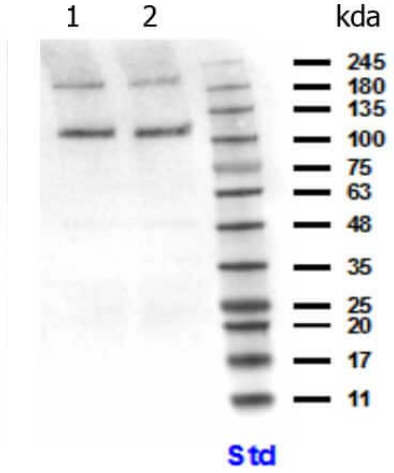
View online »

Background: PIK3CB is a catalytic subunit of phosphoinositide-3-kinase beta. PIK3CB catalyzes the production of phosphatidylinositol-3,4,5-triphosphate by phosphorylating phosphatidylinositol (PI), phosphatidylinositol-4-phosphate (PIP) and phosphatidylinositol-4,5-bisphosphate (PIP2). Growth factors and hormones trigger this phosphorylation event, which in turn coordinates cell growth, cell cycle entry, cell migration and cell survival. PTEN reverses this process. PI3K signaling pathway is constitutively activated in human cancers that have loss of function of PTEN. Furthermore, PI3KCB down regulation can suppress cell growth in malignant gliomas. Anti-PIK3C beta Antibody is suitable for researcher in Cancer, Immunology and Nuclear Signaling research.

Synonyms: rabbit anti-PIK3CB antibody, rabbit anti-PI3K beta antibody, PKC3B. PKC3 beta, Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit beta isoform, PI3-kinase subunit beta, PI3K-β, PI3Kbeta, PtdIns-3-kinase subunit beta, Phosphatidylinositol 4,5-bisphosphate 3-kinase 110 kDa catalytic subunit beta, PtdIns-3-kinase subunit p110-beta, p110beta, PIK3C1

Note: Anti-PIK3C beta Antibody has been tested for use in ELISA and western blotting. Specific conditions for reactivity should be optimized by the end user. Expect a band approximately 122.7 kDa in size corresponding to PI3K beta by western blotting in the appropriate cell lysate or extract.

Product images:



Western Blot of Rabbit anti-PIK3CB antibody. Marker: Opal Pre-stained ladder (p/n MB-210-0500). Lane 1: HEK293 lysate (p/n W09-000-365). Lane 2: MDA-MB-435S WCL (p/n W09-001-A39). Load: 35 µg per lane. Primary antibody: PIK3CB antibody at 1:1,000 for 3hrs at RT. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:30,000 for 60 min at RT. Blocking Buffer: 1% Casein-TTBS (p/n MB-082) for 30 min at RT. Predicted/Observed size: 122 kDa for PIK3CB.