

Datasheet for 600-401-GT8**PIK3CB Antibody****Overview**

Description:	Anti-PIK3CB (RABBIT) Antibody - 600-401-GT8
Item No.:	600-401-GT8
Size:	100 µg
Applications:	ELISA, WB
Reactivity:	Human
Host Species:	Rabbit

Product Details

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-PIK3CB 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
Host Species:	Rabbit
Clonality:	Polyclonal
Format:	IgG

Target Details

Gene Name:	PIK3CB
Reactivity:	Human

Immunogen Type:	Conjugated Peptide
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.
Purity/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.
Relevant Links:	• UniProtKB - P42338 • NCBI - NP_006210.1 • GeneID - 5291

Application Details

Tested Applications:	ELISA, WB
Application 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.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
ELISA:	1:50,000
WB:	1.0 μ g/mL

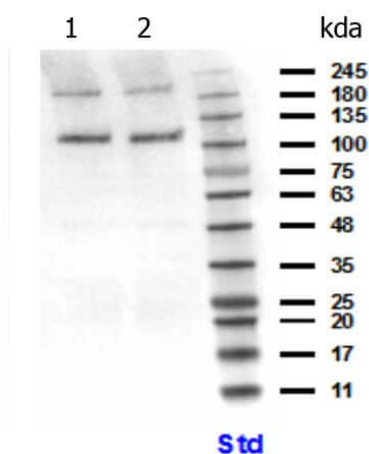
Formulation

Physical State:	Liquid (sterile filtered)
Concentration:	1.09 mg/ml by UV absorbance at 280 nm
Buffer:	0.02 M Potassium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.01% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

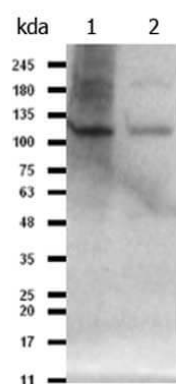
Shipping Condition:	Dry Ice
Storage Condition:	Store vial at -20° C prior to opening. Aliquot contents and freeze at -20° C or below for extended storage. Avoid cycles of freezing and thawing. Centrifuge product if not completely clear after standing at room temperature. This product is stable for several weeks at 4° C as an undiluted liquid. Dilute only prior to immediate use.
Expiration:	Expiration date is one (1) year from date of receipt.

Images



Western Blot

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.



Western Blot

Western Blot of Rabbit anti-PIK3CB antibody. Marker: Opal Pre-stained ladder (p/n MB-210-0500). Lane 1: HCT-116 WCL (p/n W09-001-GM4). 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 overnight at 4C. Secondary antibody: Peroxidase rabbit secondary antibody (p/n 611-103-122) at 1:30,000 for 60 min at RT. Blocking Buffer: (p/n MB-070) for 30 min at RT. Predicted/Observed size: 122 kDa for PIK3CB.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.