

Rabbit anti-Human Phosphoinositide 3 Kinase, p110 beta Polyclonal Antibody | anti-PIK3CB antibody

Phosphoinositide 3 Kinase, p110 beta (DKFZp779K1237, MGC133043, p110beta, Phosphatidylinositol 3 Kinase Catalytic beta Polypeptide, Phosphatidylinositol-4,5-bisphosphate 3-kinase Catalytic Subunit beta Isoform, Phosphoinositide 3 Kinase Catalytic beta Pol

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA14720	Rabbit	Human	ELISA, Western Blot, Immunoprecipitation, Immunohistochemistry, Immunocytochemistry

PRODUCT SYNONYMS

Phosphoinositide 3 Kinase; p110 beta; Polyclonal Antibody; p110 beta (DKFZp779K1237; MGC133043; p110beta; Phosphatidylinositol 3 Kinase Catalytic beta Polypeptide; Phosphatidylinositol-4; 5-bisphosphate 3-kinase Catalytic Subunit beta Isoform; Phosphoinositide 3 Kinase Catalytic beta Pol; Anti -Phosphoinositide 3 Kinase; anti-PIK3CB antibody

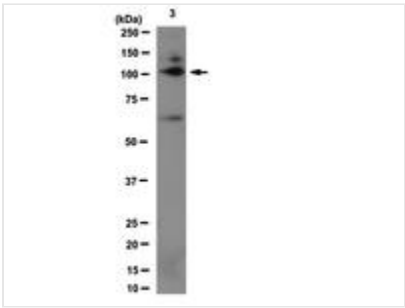
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Recognizes the internal domain of human PI3 Kinase, p110 beta. Species Sequence Homology: Monkey, canine, Rat and Mouse.
Purity/Purification	Affinity Purified Purified by immunoaffinity chromatography.
Form/Format	Supplied as a liquid in 0.1M Tris-Glycine, pH 7.4, 150mM sodium chloride, 0.05% sodium azide.
Applicable Applications for anti-PIK3CB antibody	ELISA, WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry), ICC (Immunocytochemistry)
Application Notes	Suitable for use in ELISA, Western Blot, Immunoprecipitation, Immunohistochemistry and Immunocytochemistry. Dilution: ELISA: 0.5ng/well Western Blot: 0.05-0.1ug/ml Immunocytochemistry: 1:100
Immunogen	Synthetic linear peptide corresponding to the internal domain of PI3 Kinase, p110 beta (KLH).
Positive Control	HEK-293 cell lysate
Preparation and Storage	May be stored at 4 degree C for short-term only. Aliquot to avoid repeated freezing and thawing. Store at -20 degree C. Aliquots are stable for at least 12 months. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.



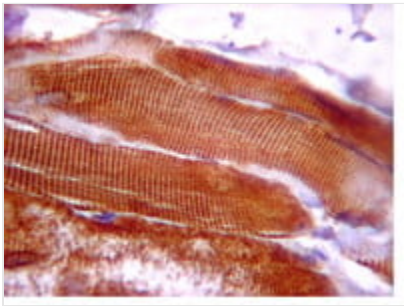
WB (Western Blot)

Western Blot Analysis: Representative lot data. Lysate from HEK-293 cells was resolved by electrophoresis, transferred to PVDF and probed with anti-PI3 Kinase, p110β; (0.05 ug/mL). Proteins were visualized using donkey anti-rabbit secondary antibody conjugated to HRP and chemiluminescence detection. Arrow indicates PI3 Kinase, p110β; (~110kD).



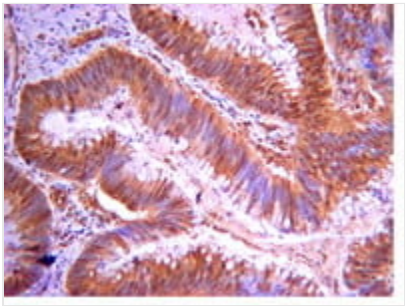
IP (Immunoprecipitation)

Immunoprecipitation: 10ug of AAA14720 was used to immunoprecipitate from 500ug of Jurkat whole cell lysate. The antibody was collected on Protein A beads and eluted with sample buffer. 5uL of Jurkat whole cell lysate was then resolved via SDS-PAGE, transferred to PVDF and probed with 0.5ug of AAA14720. Proteins were visualized using anti-rabbit-HRP conjugate and an ECL system.



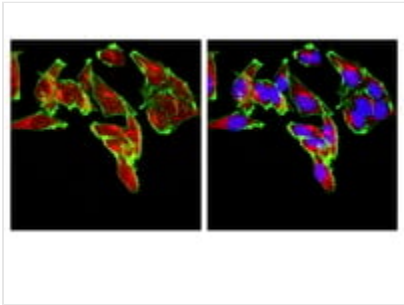
ICC (Immunocytochemistry)

Immunocytochemistry: PI3-Kinase, p110b staining of human skeletal muscle. Tissue pre-treated with Citrate pH 6.0 antigen-retrieval. AAA14720 diluted to 1:100, IHC-Select Detection with HRP-DAB. Immunoreactivity is seen as a staining pattern of cross banding striated muscle fibers.



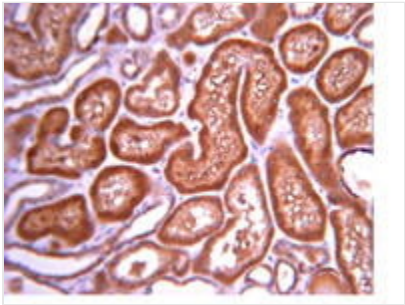
IHC (Immunohistochemistry)

Immunocytochemistry: PI3-Kinase, p110b staining in colorectal carcinoma. Tissue pre-treated with Citrate pH 6.0 antigen-retrieval. AAA14720 diluted to 1:100, IHC-Select Detection with HRP-DAB. Immunoreactivity is seen as a plasma membrane staining pattern.



ICC (Immunocytochemistry)

Confocal Immunocytochemistry Analysis: HeLa cells were fixed, permeabilized, and stained with AAA14720 (Cy3, red), DAPI (blue, nuclei), and Phalloidin-AlexaFluor®488 (actin, green). Figure on the left has the DAPI filter off.



ICC (Immunocytochemistry)

Immunocytochemistry: PI3-Kinase, p110b staining of human kidney 2 mm array spot. Tissue pre-treated with Citrate pH 6.0 antigen-retrieval. AAA14720 diluted to 1:100, IHC-Select Detection with HRP-DAB. Immunoreactivity is seen as a staining to include the thin and distal microtubules.

ADDITIONAL INFORMATION

Related Product Information for anti-PIK3CB antibody	PI3 Kinase (Phosphatidylinositol 3-Kinase) is responsible for phosphorylation of the 3 position of the inositol ring of PI(4,5)P2, to generate PI(3,4,5)P3, a potent second messenger required for survival, signaling, and insulin action. PI3 Kinase is a heterodimeric complex composed of an 85kD regulatory subunit and a 110kD catalytic subunit. Tyrosine phosphorylation of growth factor receptors creates docking sites for binding of p85 (through its SH2 domains) on the receptors; p85 brings with it p110, which is then proximal to its phospholipid substrate on the membrane. PI3 Kinase is also activated by Ras, and by the beta:gamma subunits of heterotrimeric G-proteins. PI3 Kinase is inhibitable by wortmannin, a useful tool for the study of the PI3 Kinase signaling pathway.
Product Categories/Family for anti-PIK3CB antibody	Antibodies; Abs to Protein Kinases

NCBI AND UNIPROT INFORMATION

NCBI GI #	455760
NCBI GeneID	5291
UniProt Accession #	P42338; Q24JU2; D3DNF0; Q68DL0; Q6PJ60; Q9BTS4
Molecular Weight	122,762 Da
NCBI Official Full Name	phosphatidylinositol 3-kinase p110 beta isoform
NCBI Official Synonym Full Names	phosphoinositide-3-kinase, catalytic, beta polypeptide
NCBI Official Symbol	PIK3CB
NCBI Official Synonym Symbols	PI3K; PIK3C1; P110BETA; PI3KBETA; MGC133043; DKFZp779K1237
NCBI Protein Information	phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform; PI3K-beta; OTTHUMP00000216901; OTTHUMP00000216904; PtdIns-3-kinase p110; PI3-kinase subunit beta; PI3-kinase p110 subunit beta; ptdIns-3-kinase subunit beta; ptdIns-3-kinase subunit p110-beta; phosphatidylinositol-4,5-bisphosphate 3-kinase 110 kDa catalytic subunit beta
UniProt Protein Name	Phosphatidylinositol-4,5-bisphosphate 3-kinase catalytic subunit beta isoform
UniProt Gene Name	PIK3CB
UniProt Synonym Gene Names	PIK3C1
UniProt Entry Name	PK3CB_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://www.aaabiotech.com/polyclonal/phosphoinositide-3-kinase-p110-beta-antibody-western-blot-immunoprecipitation-immunohistochemistry-immunocytochemistry-elisa/14720>