Rabbit anti-Human Phosphoinositide 3 Kinase, p110 beta Polyclonal Antibody | anti-PI3Kbeta 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
AAA26894	**Rabbit**	**Human**	**Immunocytochemistry, ELISA, Western Blot, Immunoprecipitation, Immunohistochemistry**

PRODUCT SYNONYMS

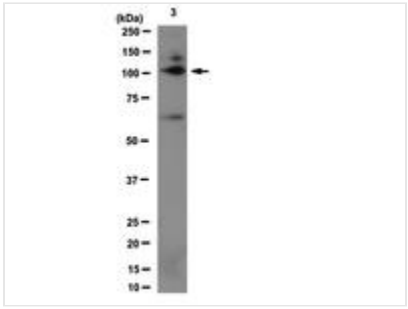
Phosphoinositide 3 Kinase; p110 beta; Polyclonal Antibody; p110 beta (DKFZp779K1237; MGC133043; p110beta; Phosphatidylinositol 3 Kinase Catalytic beta Polypeptide; Phosphatidylinositol-4; 5-bisphosphate 3-kinase Catalytic Subunit beta Isoform; Phosphoinositide 3 Kinase Catalytic beta Pol; anti-PI3Kbeta antibody

PRODUCT SPECIFICATIONS

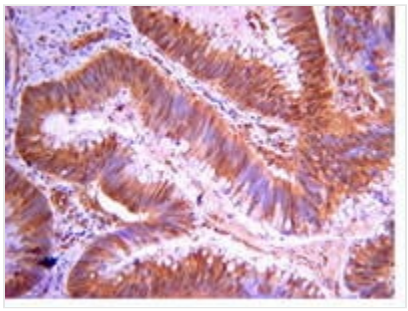
Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	IgG
Specificity	Recognizes the internal domain of human PI3 Kinase, p110 beta. Species Sequence Homology: Monkey, canine, Rat and Mouse.
Purity/Purification	Purified by Immunoaffinity chromatography.
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Alkaline Phosphatase.
Applicable Applications for anti-PI3Kbeta antibody	ICC (Immunocytochemistry), ELISA, WB (Western Blot), IP (Immunoprecipitation), IHC (Immunohistochemistry)
Application Notes	ICC: 1:100 ELISA: 0.5ng/well WB: 0.05-0.1ug/ml Applications are based on unconjugated antibody.
Immunogen	Synthetic linear peptide corresponding to the internal domain of PI3 Kinase, p110 beta (KLH).
Conjugate	AP
Positive Control	HEK-293 cell lysate
Note	Preservative Free
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.

IMAGES

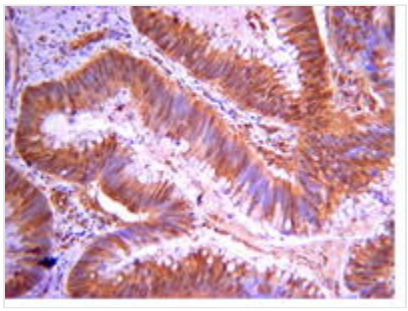
WB (Western Blot)
Western Blot Analysis: Representative lot data. Lysate from HEK-293 cells was resolved by electrophoresis, transferred to PVDF and probed with anti-PI3 Kinase, p110beta (0.05 ug/mL). Proteins were visualized using donkey anti-rabbit secondary antibody conjugated to HRP and chemiluminescence detection. Arrow indicates PI3 Kinase, p110beta (~110kD).



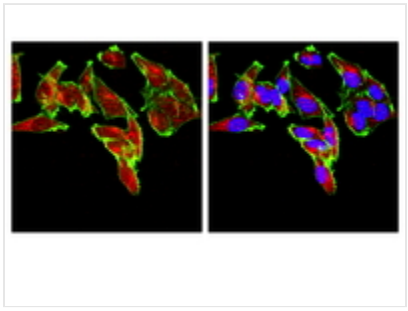
IP (Immunoprecipitation)
Immunoprecipitation: 10ug of was used to immunoprecipitate from 500ug of Jurkat whole cell lysate. The antibody was collected on Protein A beads and eluted with sample buffer. 5uL of Jurkat whole cell lysate was then resolved via SDS-PAGE, transferred to PVDF and probed with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



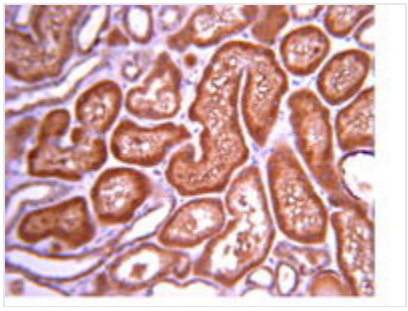
ICC (Immunocytochemistry)
Immunocytochemistry: PI3-Kinase, p110b staining of human skeletal muscle. Tissue pre-treated with Citrate pH 6.0 antigen-retrieval. diluted to 1:100, IHC-Select Detection with HRP-DAB. Immunoreactivity is seeing as a staining pattern of cross banding striated muscle fibers.



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



ICC (Immunocytochemistry)
Confocal Immunocytochemistry Analysis: HeLa cells were fixed, permeablized, and stained with (Cy3, red), DAPI (blue, nuclei), and Phalloidin-AlexaFluor488 (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. diluted to 1:100, IHC-Select Detection with HRP-DAB. Immunoreactivity is see as a staining to include the thin and distal microtubules.

ADDITIONAL INFORMATION

Product Categories/Family for anti-PI3Kbeta antibody	Antibodies; Protein Kinases
References	1. Krasilnikov, M.A., Biochemistry Mosc. 65(1): 59-67 (2000).

NCBI AND UNIPROT INFORMATION

NCBI GI #	126302584
NCBI GeneID	5290
UniProt Accession #	P42336; Q14CW1; Q99762

Molecular Weight	1068
NCBI Official Full Name	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform
NCBI Official Synonym Full Names	phosphatidylinositol-4,5-bisphosphate 3-kinase, catalytic subunit alpha
NCBI Official Symbol	PIK3CA
NCBI Official Synonym Symbols	MCM; CWS5; MCAP; PI3K; CLOVE; MCMTC; p110-alpha
NCBI Protein Information	phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform; PI3K-alpha; PI3-kinase p110 subunit alpha; ptdIns-3-kinase subunit p110-alpha; serine/threonine protein kinase PIK3CA; phosphatidylinositol 3-kinase, catalytic, 110-KD, alpha;
UniProt Protein Name	Phosphatidylinositol 4,5-bisphosphate 3-kinase catalytic subunit alpha isoform
UniProt Gene Name	**PIK3CA**
UniProt Synonym Gene Names	PI3-kinase subunit alpha; PI3K-alpha; PI3Kalpha; PtdIns-3-kinase subunit alpha; PtdIns-3-kinase subunit p110-alpha; p110alpha
UniProt Entry Name	PK3CA_HUMAN

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