Anti-PI3 Kinase p110 beta Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R014891

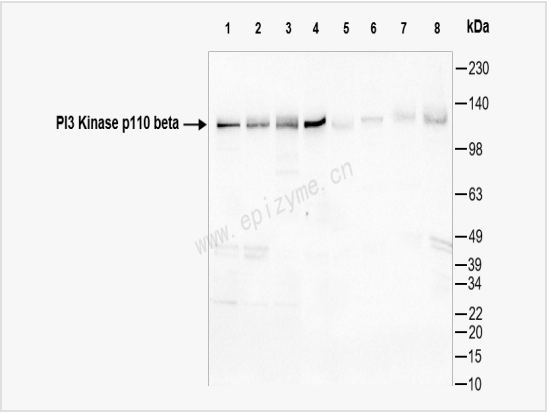
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:100~1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	87H21R26
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PI3 Kinase p110 beta
Format	Affinity purified monoclonal antibody supplied in PBS with 0.01% sodium azide and 50% glycerol, pH 7.3.
Storage	Shipped on wet ice. Store at -20°C. Stable for 24 months from date of receipt. Aliquoting is unnecessary for -20°C storage.
Precautions	Anti-PI3 Kinase p110 beta Rabbit mAb [87H21R26] is for research use only and not for use in diagnostic or therapeutic procedures.

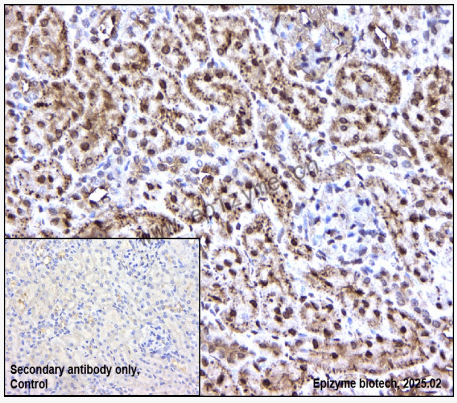
Protein Information

Synonyms	5-bisphosphate 3-kinase 110 kDa catalytic subunit beta, 5-bisphosphate 3-kinase catalytic subunit beta isoform, DKFZp779K1237, MGC133043, OTTHUMP00000216901, OTTHUMP00000216904, p110 BETA, p110Beta, Phosphatidylinositol 3 kinase catalytic beta polypeptide, Phosphatidylinositol 4 5 bisphosphate 3 kinase 110 kDa catalytic subunit beta, Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit beta isoform, Phosphatidylinositol-4, Phosphoinositide 3 kinase catalytic beta polypeptide, PI3 kinase p110 subunit beta, PI3-kinase subunit beta, PI3K, PI3K beta, PI3K-beta, PI3Kbeta, PI3KCB, PIK3C1, Pik3cb, PK3CB_HUMAN, PtdIns 3 kinase p110, PtdIns-3-kinase subunit beta, PtdIns-3-kinase subunit p110-beta.
Calculated MW	Calculated MW: 123 kDa; Observed MW: 123 kDa
Uniprot ID	P42338
Gene ID	5291
Background	This gene encodes an isoform of the catalytic subunit of phosphoinositide 3-kinase (PI3K). These kinases are important in signaling pathways involving receptors on the outer membrane of eukaryotic cells and are named for their catalytic subunit. The encoded protein is the catalytic subunit for PI3Kbeta (PI3KB). PI3KB has been shown to be part of the activation pathway in neutrophils which have bound immune complexes at sites of injury or infection. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Dec 2011]
Tissue Location	Expressed ubiquitously.

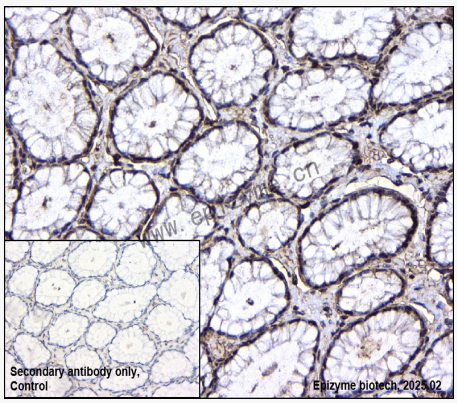
Validation Images



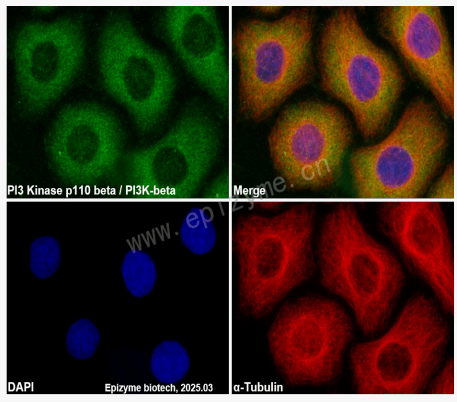
Western Blot - Anti-PI3 Kinase p110 beta Rabbit mAb [87H21R26]
All lanes: R014891 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: Caco2 (Human colorectal adenocarcinoma epithelial cell) whole cell lysates
Lane 5: Jurkat (Human T lymphocytic leukemia cell) whole cell lysates
Lane 6: 293T (Human embryonic kidney cell) whole cell lysates
Lane 7: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 8: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 123 kDa
Observed band size: 123 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-PI3 Kinase p110 beta Rabbit mAb [87H21R26]
Sample: Paraformaldehyde-fixed, paraffin embedded rat kidney tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014891 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunohistochemistry - Anti-PI3 Kinase p110 beta Rabbit mAb [87H21R26]
Sample: Paraformaldehyde-fixed, paraffin embedded human gastric cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R014891 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution
DAB was used as the chromogen.
Counter stained with hematoxylin.
Positive/negative staining were presented.
Only the secondary antibody was used as the negative control.



Immunofluorescence - Anti-PI3 Kinase p110 beta Rabbit mAb [87H21R26]
Sample: Hela cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R014891 at 1:100 dilution and α-tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:100 dilution
Secondary antibodies: Goat anti-Rabbit (488) at 1:1,000 dilution (shown in green) and Goat anti-Mouse (555) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).