Anti-PI3K-gamma Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R012035

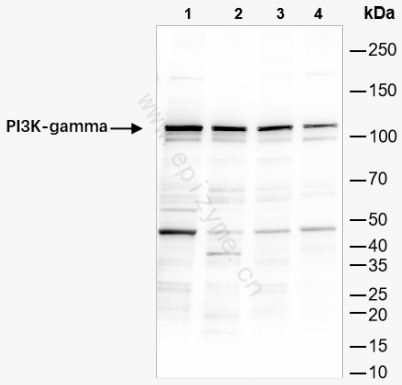
Product Information

Application	WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC, ELISA
Reactivity	Human
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.	57K12M24
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PI3K-gamma
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-PI3K-gamma Rabbit mAb [57K12M24] is for research use only and not for use in diagnostic or therapeutic procedures.

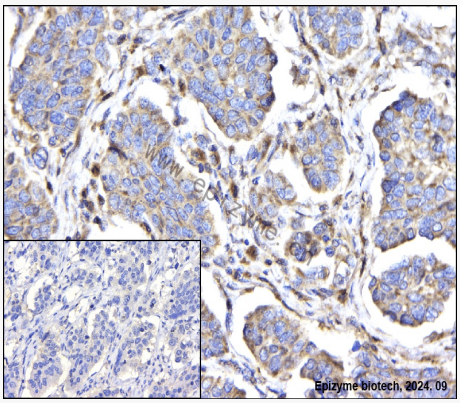
Protein Information

Synonyms	1 phosphatidylinositol 3 kinase, 5-bisphosphate 3-kinase 110 kDa catalytic subunit gamma, 5-bisphosphate 3-kinase catalytic subunit gamma isoform, p110 gamma, p110gamma, p120 PI3K, p120-PI3K, Phosphatidylinositol 3 kinase catalytic 110 kD gamma, Phosphatidylinositol 3 kinase gamma, p110 gamma, Phosphatidylinositol 3 kinase, catalytic, gamma polypeptide, Phosphatidylinositol 4 5 bisphosphate 3 kinase 110 kDa catalytic subunit gamma, Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit gamma, Phosphatidylinositol 4 5 bisphosphate 3 kinase catalytic subunit gamma isoform, Phosphatidylinositol-4, Phosphoinositide 3 kinase catalytic gamma polypeptide, Phosphoinositide 3 kinase gamma catalytic subunit, PI 3 Kinase catalytic subunit gamma, PI3 kinase p110 subunit gamma, PI3-kinase subunit gamma, PI3CG, PI3K, PI3K-gamma, PI3Kgamma, PIK3, Pik3cg, PK3CG_HUMAN, PtdIns-3-kinase subunit gamma, PtdIns-3-kinase subunit p110-gamma, Serine/threonine protein kinase PIK3CG.
Calculated MW	Calculated MW: 127 kDa; Observed MW: 110 kDa
Uniprot ID	P48736
Gene ID	5294
Background	Phosphoinositide 3-kinases (PI3Ks) phosphorylate inositol lipids and are involved in the immune response. The protein encoded by this gene is a class I catalytic subunit of PI3K. Like other class I catalytic subunits (p110-alpha p110-beta, and p110-delta), the encoded protein binds a p85 regulatory subunit to form PI3K. This gene is located in a commonly deleted segment of chromosome 7 previously identified in myeloid leukemias. Several transcript variants encoding the same protein have been found for this gene. [provided by RefSeq, Jun 2015]
Tissue Location	Pancreas, skeletal muscle, liver and heart.

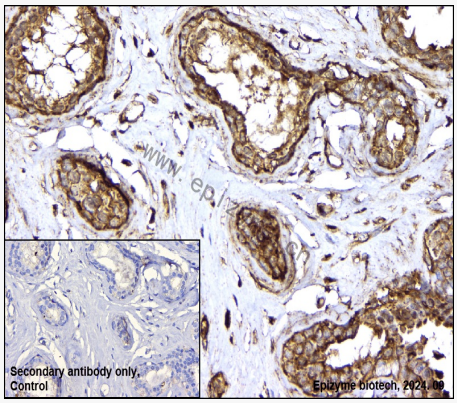
Validation Images



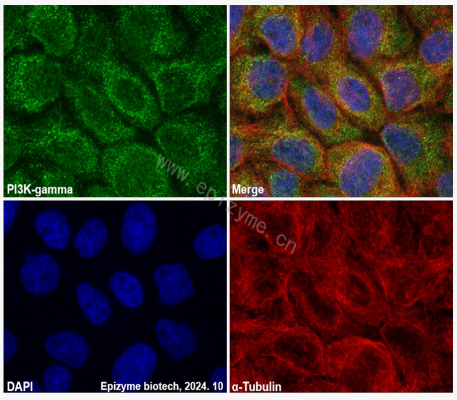
Western Blot - Anti-PI3 Kinase p110 gamma Rabbit mAb [57K12M24]
All lanes: R012035 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4: A431 (Human epidermoid teratoma cell line) 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: 127 kDa
Observed band size: 110 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-PI3K-gamma Rabbit mAb [57K12M24]
Sample: Paraformaldehyde-fixed, paraffin embedded human ovarian cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R012035 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-PI3K-gamma Rabbit mAb [57K12M24]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R012035 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-PI3K-gamma Rabbit mAb [57K12M24]
Sample: A431 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: R012035 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).