

## Anti-PI3-Kinase p85 beta Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

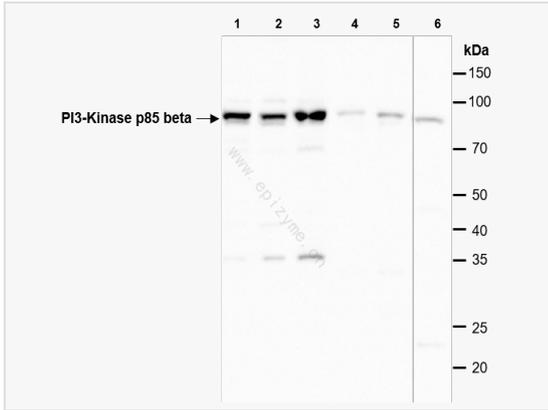
Catalog # R013807

### Product Information

Application	ELISA, WB, IHC-P/IF (Tissue-P), IF (Cell)/ICC
Reactivity	Mouse, Human, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	31C49E09
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human PI 3 Kinase p85 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 p85 beta Rabbit mAb [31C49E09] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	p85, MPPH, P85B, p85-BETA, P85B_HUMAN, Phosphatidylinositol 3-kinase regulatory subunit beta, PI3-kinase regulatory subunit beta, PI3K regulatory subunit beta, PtdIns-3-kinase regulatory subunit beta, Phosphatidylinositol 3-kinase 85 kDa regulatory subunit beta, PI3-kinase subunit p85-beta, PtdIns-3-kinase regulatory subunit p85-beta, PI 3-Kinase p85-β, Phosphoinositide 3 kinase regulatory subunit 2 (beta), PIK3R2.
Calculated MW	Calculated MW: 85 kDa; Observed MW: 85 kDa
Uniprot ID	O00459, Q63788
Gene ID	5296, 29741
Background	Phosphatidylinositol 3-kinase (PI3K) is a lipid kinase that phosphorylates phosphatidylinositol and similar compounds, creating second messengers important in growth signaling pathways. PI3K functions as a heterodimer of a regulatory and a catalytic subunit. The protein encoded by this gene is a regulatory component of PI3K. Two transcript variants, one protein coding and the other non-protein coding, have been found for this gene. [provided by RefSeq, Dec 2012]



Western Blot - Anti-PI3-Kinase p85 beta Rabbit mAb [31C49E09]

All lanes: R013807 at 1:1,000 dilution

Lane 1: A431 (human epidermoid carcinoma cell ) whole cell lysates

Lane 2: Jurkat (human T lymphocytic leukemia cell) whole cell lysates

Lane 3: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: SCC-9 (human tongue squamous carcinoma epithelial cell) whole cell lysates

Lane 5: U2OS (human osteosarcoma epithelial cell) whole cell lysates

Lane 6: Rat kidney whole tissue lysates

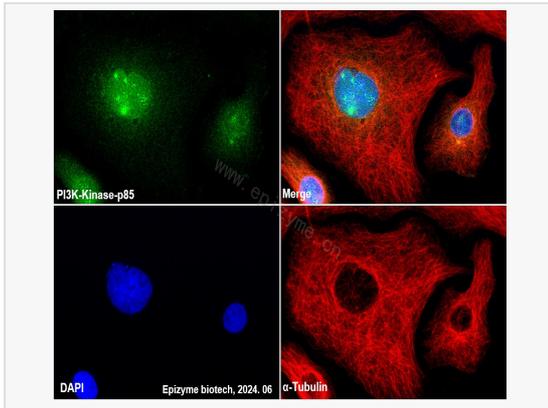
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 85 kDa

Observed band size: 85 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-PI3-Kinase p85 beta Rabbit mAb [31C49E09]

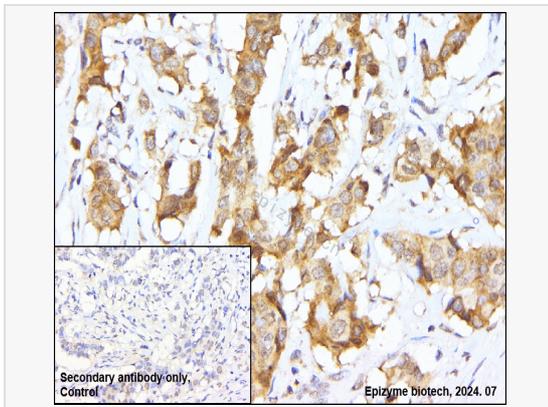
Sample: HeLa cells

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: R013807 at 1:50 dilution and  $\alpha$ -tubulin Mouse Monoclonal Antibody (Cat. No. LF209) at 1:50 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).



Immunohistochemistry - Anti-PI3-Kinase p85 beta Rabbit mAb [31C49E09]

Sample: Paraformaldehyde-fixed, paraffin embedded human breast carcinoma tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

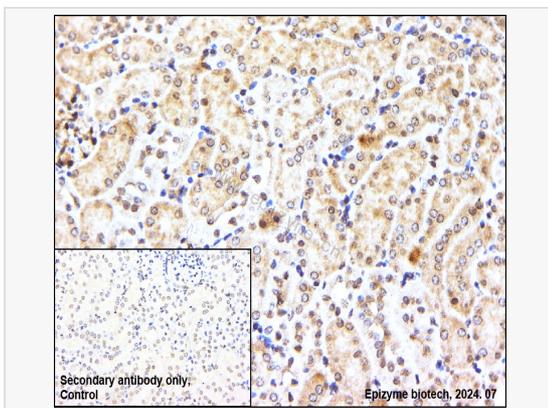
Primary antibody: R013807 at 1:200 dilution

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 p85 beta Rabbit mAb [31C49E09]

Sample: Paraformaldehyde-fixed, paraffin embedded mouse kidney tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

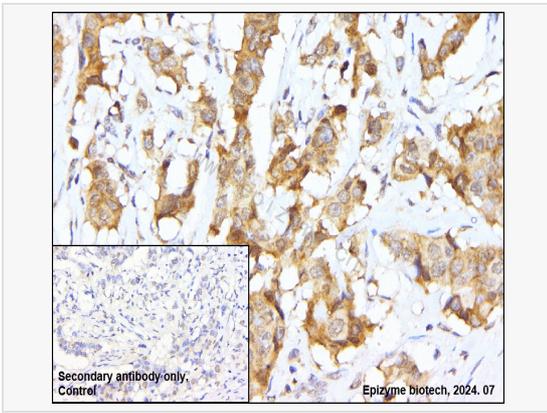
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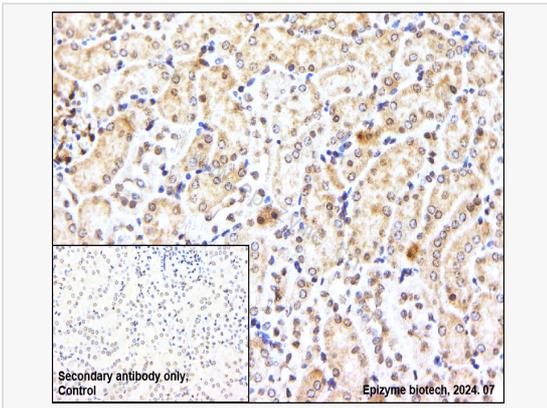
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