Anti-Phospho-PLK1 (Thr210) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015061

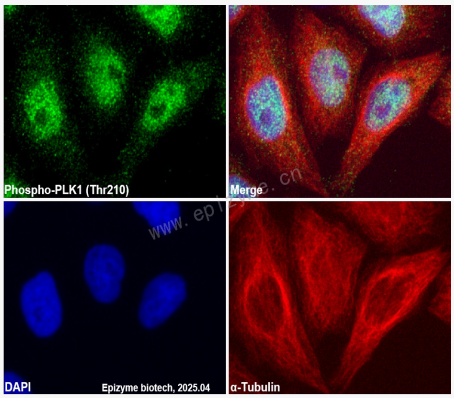
Product Information

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.	87Q55F41
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Thr210 of human PLK1
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-Phospho-PLK1 (Thr210) Rabbit mAb [87Q55F41] is for research use only and not for use in diagnostic or therapeutic procedures.

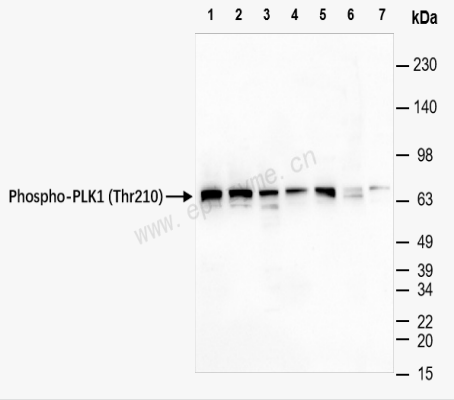
Protein Information

Synonyms	Cell cycle regulated protein kinase, PLK 1, PLK, PLK-1, plk1, PLK1_HUMAN, Polo like kinase 1, Polo-like kinase 1, Serine/threonine protein kinase 13, Serine/threonine protein kinase PLK1, Serine/threonine-protein kinase 13, Serine/threonine-protein kinase PLK1, STPK 13, STPK13.
Calculated MW	Calculated MW: 68 kDa; Observed MW: 68 kDa
Uniprot ID	P53350
Gene ID	5347
Background	The Ser/Thr protein kinase encoded by this gene belongs to the CDC5/Polo subfamily. It is highly expressed during mitosis and elevated levels are found in many different types of cancer. Depletion of this protein in cancer cells dramatically inhibited cell proliferation and induced apoptosis; hence, it is a target for cancer therapy. [provided by RefSeq, Sep 2015]
Cellular Location	Nucleus. Chromosome > centromere > kinetochore. Cytoplasm > cytoskeleton > centrosome. During early stages of mitosis, the phosphorylated form is detected on centrosomes and kinetochores. Localizes to the outer kinetochore. Presence of SGOL1 and interaction with the phosphorylated form of BUB1 is required for the kinetochore localization.
Tissue Location	Placenta and colon.

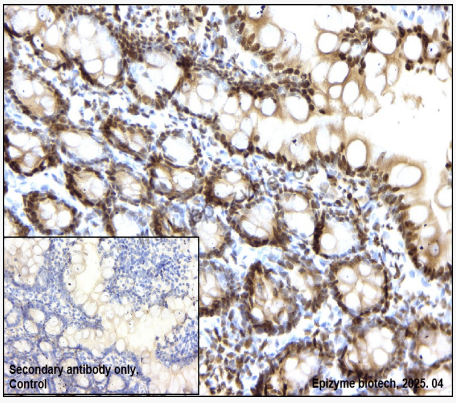
Validation Images



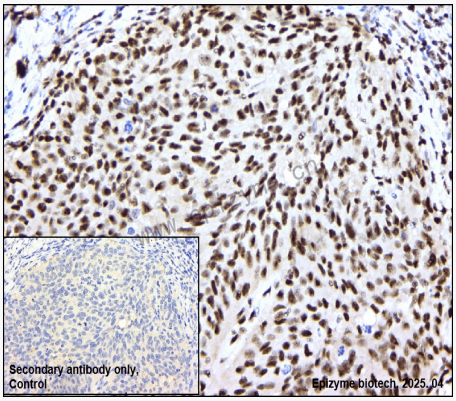
Immunofluorescence - Anti-Phospho-PLK1 (Thr210) Rabbit mAb [87Q55F41]
Sample: HeLa cells
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.
Primary antibodies: R015061 at 1:100 dilution 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).



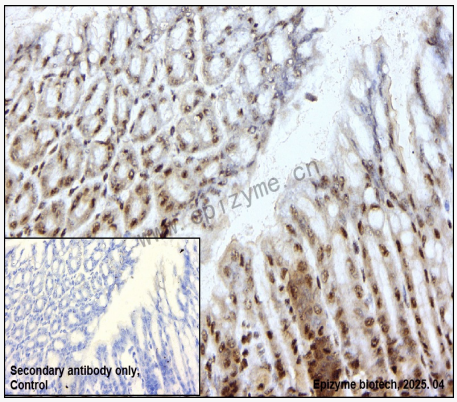
Western Blot - Anti-Phospho-PLK1 (Thr210) Rabbit mAb [87Q55F41]
All lanes: R015061 at 1:1,000 dilution
Lane 1 : HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2 : A431 (Human epidermoid teratoma cell line) whole cell lysates
Lane 3 : HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 4 : T24 (Human bladder cancer epithelial cell) whole cell lysates
Lane 5 : 293T (Human embryonic kidney cell) whole cell lysates
Lane 6 : C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 7 : PC-12 (Rat adrenal pheochromocytoma epithelial 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: 68 kDa
Observed band size: 68 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-PLK1 (Thr210) Rabbit mAb [87Q55F41]
Sample: Paraformaldehyde-fixed, paraffin embedded rat colon tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015061 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-Phospho-PLK1 (Thr210) Rabbit mAb [87Q55F41]
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015061 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-Phospho-PLK1 (Thr210) Rabbit mAb [87Q55F41]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse stomach tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015061 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.