Anti-Phospho-Rb (Ser780) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R015029

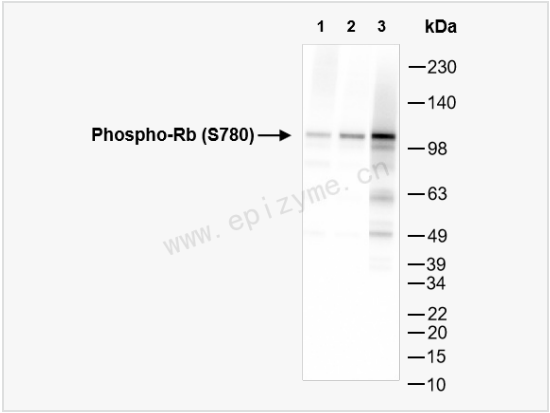
Product Information

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.	52N81L87
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Phospho-Rb (S780)
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-Rb (Ser780) Rabbit mAb [52N81L87] is for research use only and not for use in diagnostic or therapeutic procedures.

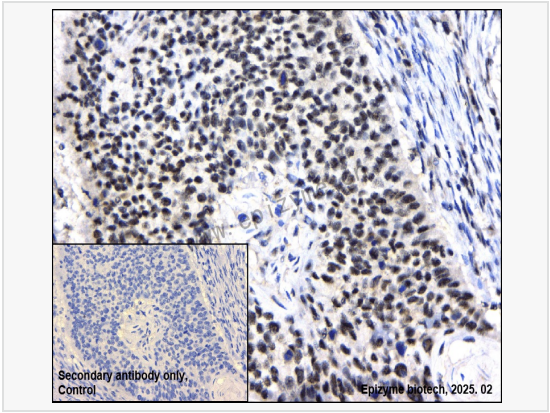
Protein Information

Synonyms	Exon 17 tumor GOS561 substitution mutation causes premature stop, GOS563 exon 17 substitution mutation causes premature stop, OSRC, Osteosarcoma, p105-Rb, P105RB, PP105, pp110, PPP1R130, pRb, Prepro retinoblastoma associated protein, Protein phosphatase 1 regulatory subunit 130, Rb, RB transcriptional corepressor 1, RB_HUMAN, RB1, RB1 gene, Retinoblastoma 1, Retinoblastoma suspectibility protein, Retinoblastoma-associated protein.
Calculated MW	Calculated MW: 106 kDa; Observed MW: 106 kDa
Uniprot ID	P06400
Gene ID	5925
Background	The protein encoded by this gene is a negative regulator of the cell cycle and was the first tumor suppressor gene found. The encoded protein also stabilizes constitutive heterochromatin to maintain the overall chromatin structure. The active, hypophosphorylated form of the protein binds transcription factor E2F1. Defects in this gene are a cause of childhood cancer retinoblastoma (RB), bladder cancer, and osteogenic sarcoma. [provided by RefSeq, Jul 2008]
Cellular Location	Nucleus.
Tissue Location	Expressed in the retina.

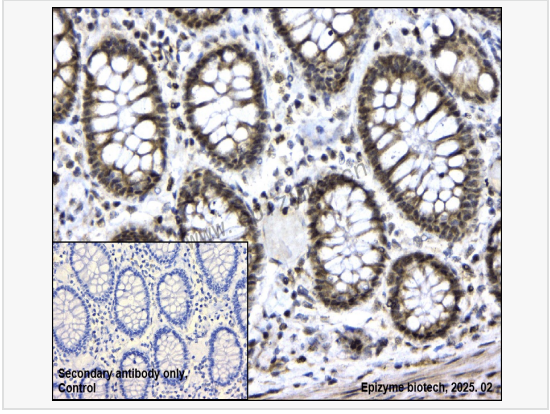
Validation Images



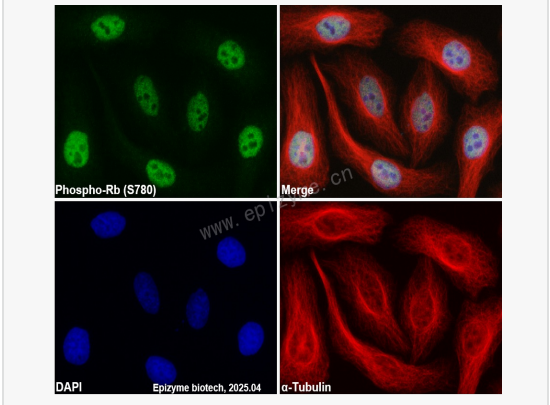
Western Blot - Anti-Phospho-Rb (Ser780) Rabbit mAb [52N81L87]
All lanes: R015029 at 1:1,000 dilution
Lane 1 : HepG2 (Human hepatocarcinoma epithelial cell) whole cell lysates
Lane 2 : HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 3 : Jurkat (Human T lymphocytic leukemia 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: 106 kDa
Observed band size: 106 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Phospho-Rb (Ser780) Rabbit mAb [52N81L87]
Sample: Paraformaldehyde-fixed, paraffin embedded human lung cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015029 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-Rb (Ser780) Rabbit mAb [52N81L87]
Sample: Paraformaldehyde-fixed, paraffin embedded human colonic cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R015029 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-Phospho-Rb (Ser780) Rabbit mAb [52N81L87]
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: R015029 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).