Anti-Phospho-Rb2/p130 (Thr986) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R012848

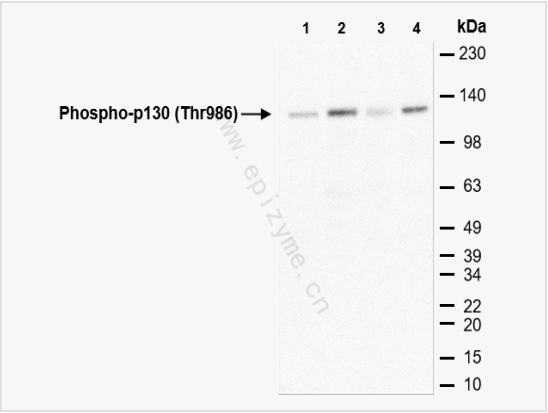
Product Information

Application	WB, IF (Cell)/ICC, ELISA
Reactivity	Human, Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	69L29M82
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Thr986 of human p130
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-Rb2/p130 (Thr986) Rabbit mAb [69L29M82] is for research use only and not for use in diagnostic or therapeutic procedures.

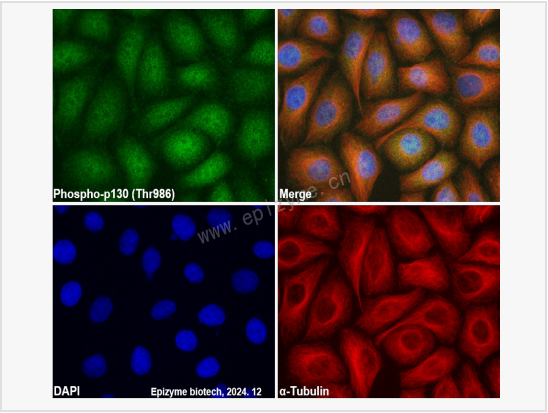
Protein Information

Synonyms	130 kDa retinoblastoma associated protein, 130 kDa retinoblastoma-associated protein, IB4, p130, PPAR-alpha-interacting complex protein 128, PRB2, Rb2, Rbl2, RBL2_HUMAN, RBR 2, RBR-2, RBR2, Retinoblastoma like 2, Retinoblastoma-like protein 2, Retinoblastoma-related protein 2, RIC128.
Calculated MW	Calculated MW: 128 kDa; Observed MW: 128 kDa
Uniprot ID	Q08999
Gene ID	5934
Background	Key regulator of entry into cell division. Directly involved in heterochromatin formation by maintaining overall chromatin structure and, in particular, that of constitutive heterochromatin by stabilizing histone methylation. Recruits and targets histone methyltransferases KMT5B and KMT5C, leading to epigenetic transcriptional repression. Controls histone H4 'Lys-20' trimethylation. Probably acts as a transcription repressor by recruiting chromatin-modifying enzymes to promoters. Potent inhibitor of E2F-mediated trans-activation, associates preferentially with E2F5. Binds to cyclins A and E. Binds to and may be involved in the transforming capacity of the adenovirus E1A protein. May act as a tumor suppressor.
Cellular Location	Nucleus.

Validation Images



Western Blot - Anti-Phospho-Rb2/p130 (Thr986) Rabbit mAb [69L29M82]
All lanes: R012848 at 1:1,000 dilution
Lane 1: Raw264.7 (Mouse mononuclear macrophage leukemia cell) whole cell lysates
Lane 2: C2C12 (Mouse myoblasts epithelial cell) whole cell lysates
Lane 3: U2OS (Human osteosarcoma epithelial cell) whole cell lysates
Lane 4: T24 (Human bladder cancer 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: 128 kDa
Observed band size: 128 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Phospho-Rb2/p130 (Thr986) Rabbit mAb [69L29M82]
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: R012848 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 (CY3) at 1:1,000 dilution (shown in red)
Nuclei were stained with DAPI (shown in blue).