Anti-p27 Kip 1 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013767

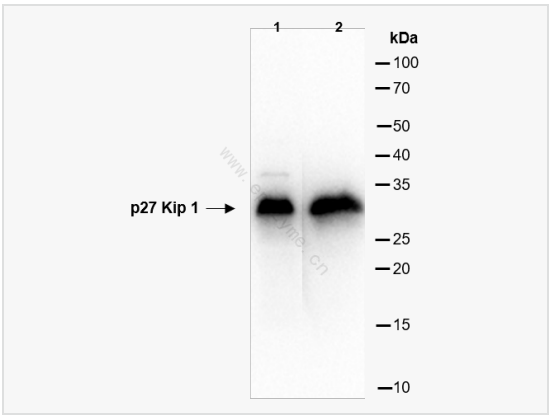
Product Information

Application	IHC-P/IF (Tissue-P), IF (Cell)/ICC, WB, ELISA
Reactivity	Mouse, Rat
Dilution	WB 1:1,000~1:2,000; IHC-P 1:200; IF 1:100
Host	Rabbit
Clonality	Monoclonal
Clone No.	43G09L12
Isotype	IgG
Label	Unconjugated
Immunogen	Recombinant protein of mouse p27 KIP 1
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-p27 Kip 1 Rabbit mAb [43G09L12] is for research use only and not for use in diagnostic or therapeutic procedures.

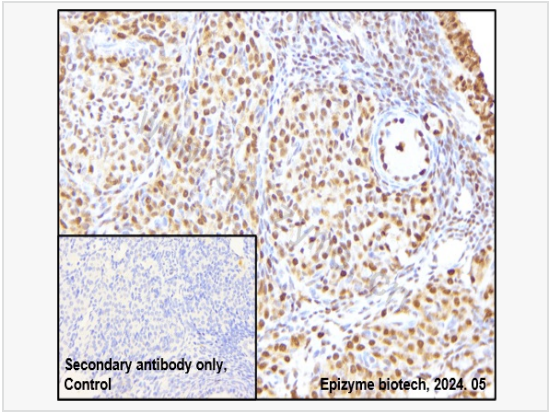
Protein Information

Synonyms	CDKN1B, KIP1, Cyclin-dependent kinase inhibitor 1B, Cyclin-dependent kinase inhibitor p27, p27Kip1, p27, Kip1, p27Kip1, AA408329, AI843786.
Calculated MW	Calculated MW: 22 kDa; Observed MW: 27 kDa
Uniprot ID	P46414
Gene ID	12576
Background	The encoded protein binds to and prevents the activation of cyclin E-CDK2 or cyclin D-CDK4 complexes, and thus controls the cell cycle progression at G1. The degradation of this protein, which is triggered by its CDK dependent phosphorylation and subsequent ubiquitination by SCF complexes, is required for the cellular transition from quiescence to the proliferative state.

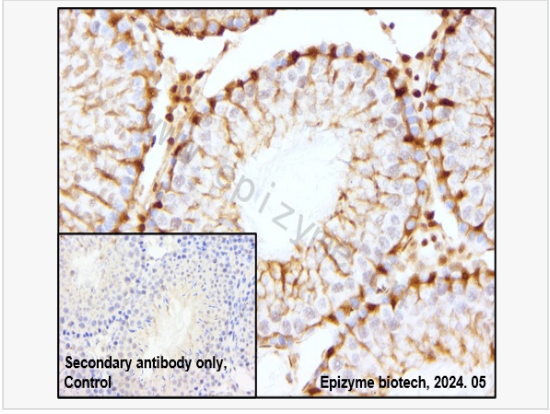
Validation Images



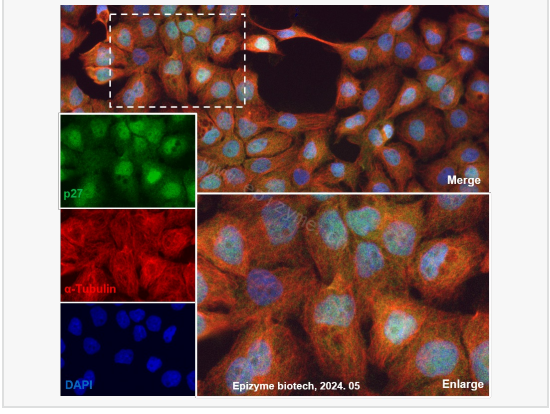
Western Blot - Anti-p27 Kip 1 Rabbit mAb [43G09L12]
All lanes: R013767 at 1:1,000 dilution
Lane 1: SW620 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 2: Balb/c mouse lung whole tissue lysates
Lysates/proteins at 10 µg per lane.
Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution
Predicted band size: 22 kDa
Observed band size: 27 kDa
Developed using the ECL technique (Cat. No. SQ201).



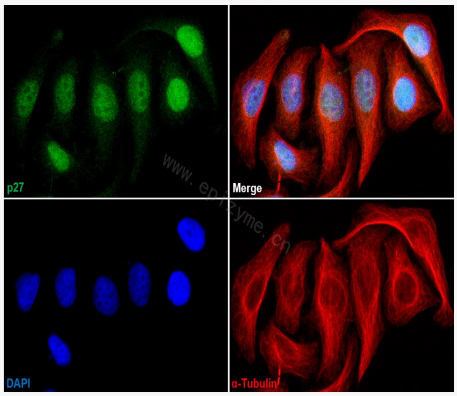
Immunohistochemistry - Anti-p27 Kip 1 Rabbit mAb [43G09L12]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse ovary tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013767 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP 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-p27 Kip 1 Rabbit mAb [43G09L12]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013767 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-p27 Kip 1 Rabbit mAb [43G09L12]
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: R013767 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).



Immunofluorescence - Anti-p27 Kip 1 Rabbit mAb [43G09L12]
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: R013767 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).