Anti-CDK2 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R011804

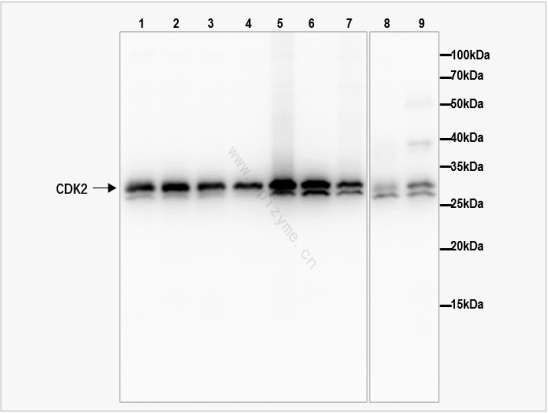
Product Information

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 1:200; IF 1:100~1:200
Host	Rabbit
Clonality	Monoclonal
Clone No.	79L15M51
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Cdk2
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-CDK2 antibody [79L15M51] is for research use only and not for use in diagnostic or therapeutic procedures.

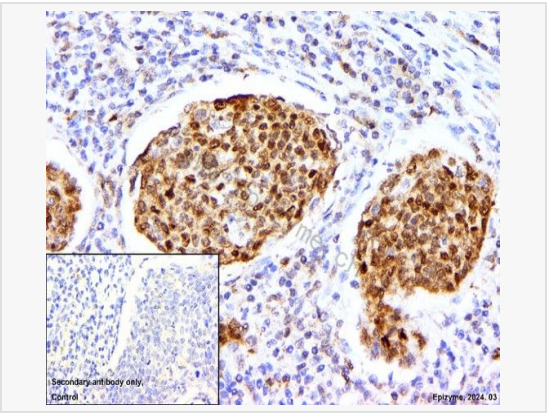
Protein Information

Synonyms	CDK2, CDKN2, Cyclin-dependent kinase 2, Cell division protein kinase 2, p33 protein kinase.
Calculated MW	Calculated MW: 33 kDa; Observed MW: 30, 33 kDa
Uniprot ID	P24941
Gene ID	1017
Background	The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G1/S and G2/M phase transitions of eukaryotic cell cycle.

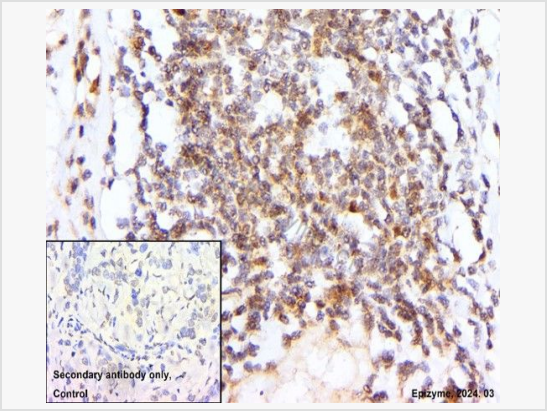
Validation Images



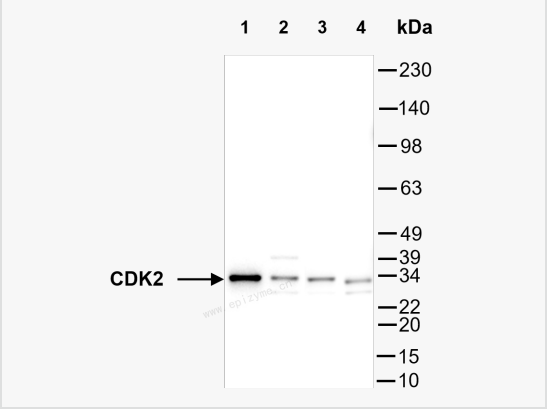
Western Blot - Anti-CDK2 Rabbit mAb [79L15M51]
All lanes: R011804 at 1:1,000 dilution
Lane 1: 293T (human embryonic kidney cell) whole cell lysates
Lane 2: HeLa (human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 3: Jurkat (human T lymphocytic leukemia cell) whole cell lysates
Lane 4: MCF7 (human breast adenocarcinoma epithelial cell) whole cell lysates
Lane 5: HCT116 (human colorectal carcinoma epithelial cell) whole cell lysates
Lane 6: T24 (human bladder cancer epithelial cell) whole cell lysates
Lane 7: HepG2 (human hepatocellular carcinoma epithelial cell) whole cell lysates
Lane 8: Balb/c mouse kidney whole tissue lysates
Lane 9: Balb/c mouse small intestine 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: 33 kDa
Observed band size: 30 kDa
Developed using the ECL technique (Cat. No. SQ201).



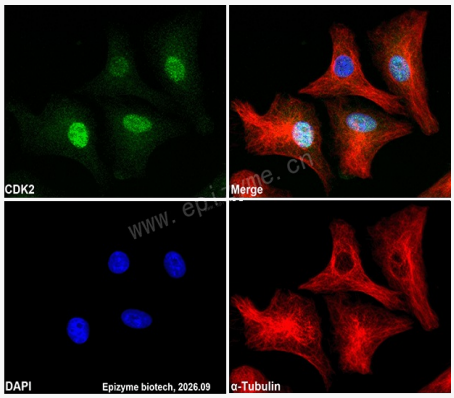
Immunohistochemistry - Anti-CDK2 Rabbit mAb [79L15M51]
Sample: Paraformaldehyde-fixed, paraffin embedded human cervical cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011804 at 1:200 dilution
Secondary antibody: Goat Anti-Rabbit IgG (H+L), 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-CDK2 Rabbit mAb [79L15M51]
Sample: Paraformaldehyde-fixed, paraffin embedded human breast cancer tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R011804 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.



Western Blot - Anti-CDK2 Rabbit mAb [79L15M51]
All lanes: R011804 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: PC-12 (Rat adrenal pheochromocytoma epithelial cell) whole cell lysates
Lane 3: Rat kidney whole tissue lysates
Lane 4: Rat intestine 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: 33 kDa
Observed band size: 33 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-CDK2 Rabbit mAb [79L15M51]
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: R011804 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).