

## Anti-Phospho-CDK1/2 (Thr14) Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

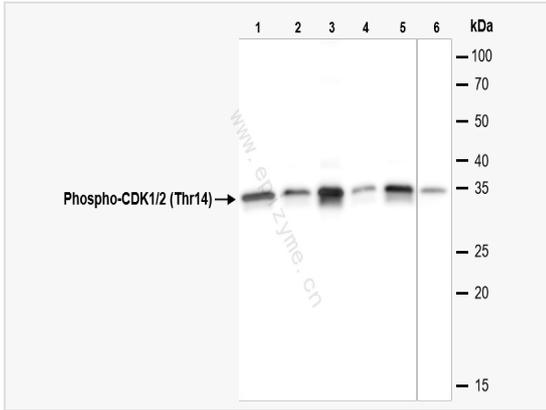
Catalog # R010232

### 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.	30L61L70
Isotype	IgG
Label	Unconjugated
Immunogen	A synthetic phosphopeptide corresponding to residues surrounding Thr14 of human Cdk1/2
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-CDK1/2 (Thr14) Rabbit mAb [30L61L70] is for research use only and not for use in diagnostic or therapeutic procedures.

### Protein Information

Synonyms	CDC2, Cdc2 related protein kinase, CDC28A, Cell division cycle 2, Cyclin dependent kinase 2, p33 protein kinase, p34 protein kinase.
Calculated MW	Calculated MW: 34 kDa; Observed MW: 34 kDa
Uniprot ID	P06493
Gene ID	1017
Background	This gene encodes a member of a family of serine/threonine protein kinases that participate in cell cycle regulation. The encoded protein is the catalytic subunit of the cyclin-dependent protein kinase complex, which regulates progression through the cell cycle. Activity of this protein is especially critical during the G1 to S phase transition. This protein associates with and regulated by other subunits of the complex including cyclin A or E, CDK inhibitor p21Cip1 (CDKN1A), and p27Kip1 (CDKN1B). Alternative splicing results in multiple transcript variants. [provided by RefSeq, Mar 2014]
Cellular Location	Cytoplasmic and Nuclear



Western Blot - Anti-Phospho-CDK1/2 (Thr14) Rabbit mAb [30L61L70]

All lanes: R010232 at 1:1,000 dilution

Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates

Lane 2: MCF-7 (Human breast adenocarcinoma epithelial cell) whole cell lysates

Lane 3: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates

Lane 4: SCC-9 (Human tongue squamous carcinoma epithelial cell) whole cell lysates

Lane 5: U2OS (Human osteosarcoma epithelial cell) whole cell lysates

Lane 6: Rat ovary whole tissue lysates

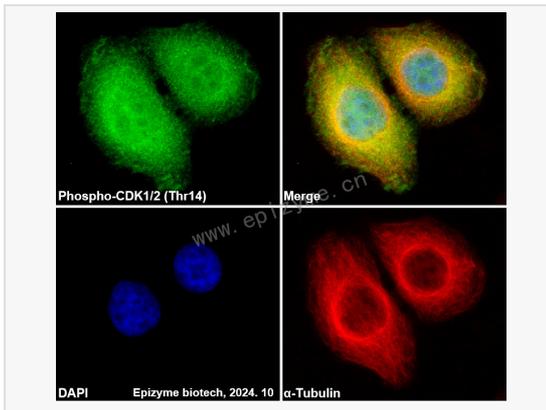
Lysates/proteins at 10 µg per lane.

Secondary antibody: Goat Anti-Rabbit IgG(H+L), HRP Conjugated (Cat. No. LF102) at 1:5,000 dilution

Predicted band size: 34 kDa

Observed band size: 34 kDa

Developed using the ECL technique (Cat. No. SQ201).



Immunofluorescence - Anti-Phospho-CDK1/2 (Thr14) Rabbit mAb [30L61L70]

Sample: HeLa cells

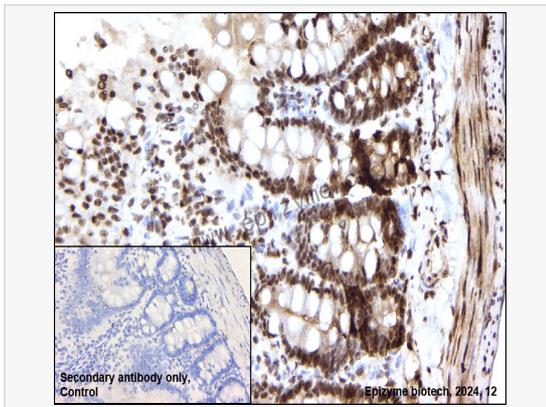
The cells were fixed with 4% paraformaldehyde (10 min), permeabilized with 0.5% Triton X-100 for 10 minutes and then blocked with 5% BSA in 0.1% PBS-Tween for 0.5 hours.

Primary antibodies: R010232 at 1:100 dilution and alpha-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).



Immunohistochemistry - Anti-Phospho-CDK1/2 (Thr14) Rabbit mAb [30L61L70]

Sample: Paraformaldehyde-fixed, paraffin embedded rat colon tissue

Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.

Primary antibody: R010232 at 1:200 dilution

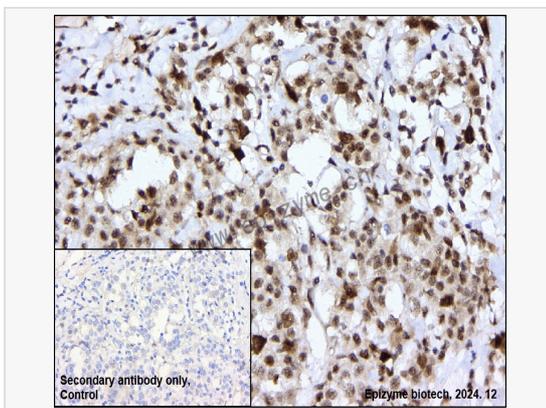
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-CDK1/2 (Thr14) Rabbit mAb [30L61L70]

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: R010232 at 1:200 dilution

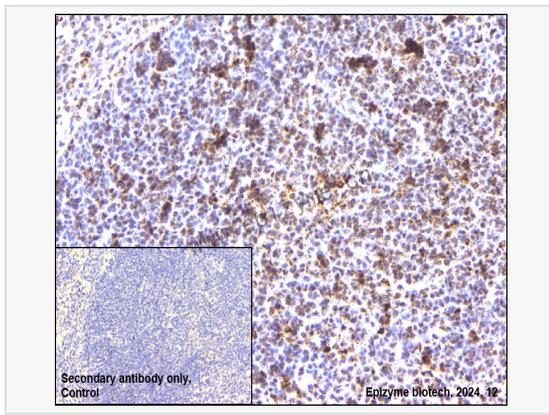
Secondary antibody: Goat Anti-Rabbit IgG (H+L), HRP conjugated at 1:1,000 dilution

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-CDK1/2 (Thr14) Rabbit mAb [30L61L70]  
Sample: Paraformaldehyde-fixed, paraffin embedded mouse spleen tissue  
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.  
Primary antibody: R010232 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.