Anti-Cdc6 Rabbit mAb

Purified Recombinant Rabbit Monoclonal Antibody

Catalog # R013869

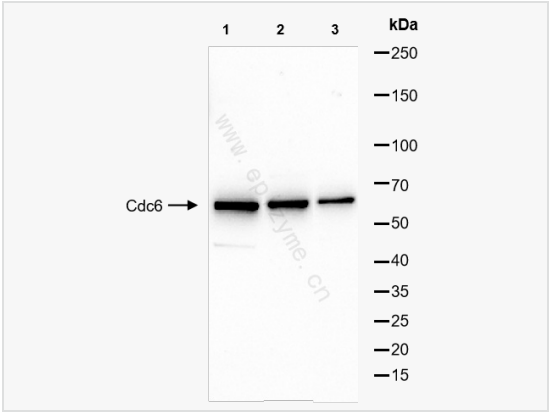
Product Information

Application	IHC-P/IF (Tissue-P), IF (Cell)/ICC, WB, 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.	40G19E20
Isotype	IgG
Label	Unconjugated
Immunogen	A synthesized peptide derived from human Cdc6
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-Cdc6 Rabbit mAb [40G19E20] is for research use only and not for use in diagnostic or therapeutic procedures.

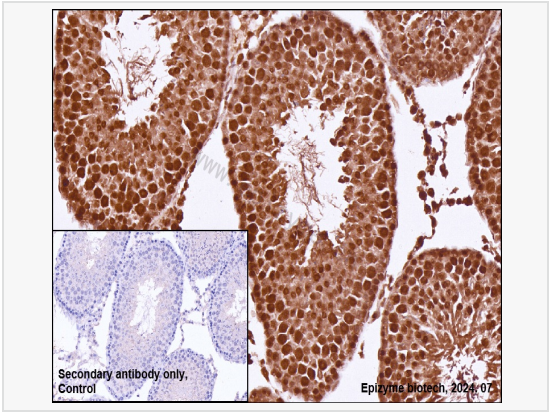
Protein Information

Synonyms	Cdc 18L, Cdc 6, CDC18 (cell division cycle 18, S.pombe, homolog) like, CDC18 (S.pombe), Cdc18 related protein, CDC18(S.pombe), Cdc18-related protein, Cdc18L, cdc6, CDC6 cell division cycle 6 homolog, CDC6 related protein, CDC6-related protein, CDC6_HUMAN, Cdc6p, CELL CYCLE CONTROLLER CDC6, Cell division control protein 6, Cell division control protein 6 homolog, Cell division cycle 6 homolog (S. cerevisiae), Cell division cycle 6 homolog, Cell division cycle 6, S. cerevisiae, homolog of, HsCDC 6, HsCDC18, HsCDC6, p62, p62(cdc 6), p62(cdc6).
Calculated MW	Calculated MW: 63 kDa; Observed MW: 63 kDa
Uniprot ID	Q99741
Gene ID	990
Background	Involved in the initiation of DNA replication. Also participates in checkpoint controls that ensure DNA replication is completed before mitosis is initiated.Cdc6 has recently been shown to play an important role in the intra-S-phase p21 Waf1/Cip1-dependent DNA damage response. Both cdc6 and CDT1 are degraded by the ubiquitin proteasome pathway in response to DNA damage associated with re-replication.
Cellular Location	Nucleus. Cytoplasm. The protein is nuclear in G1 and cytoplasmic in S-phase cells.

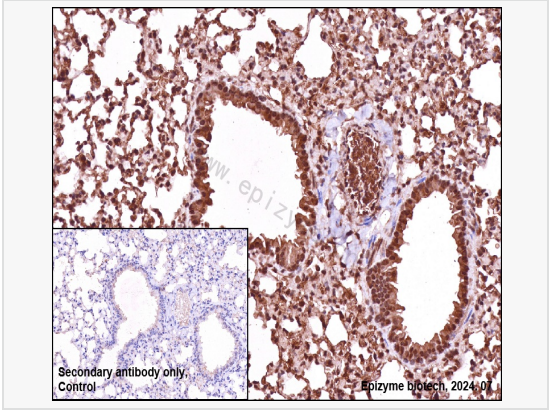
Validation Images



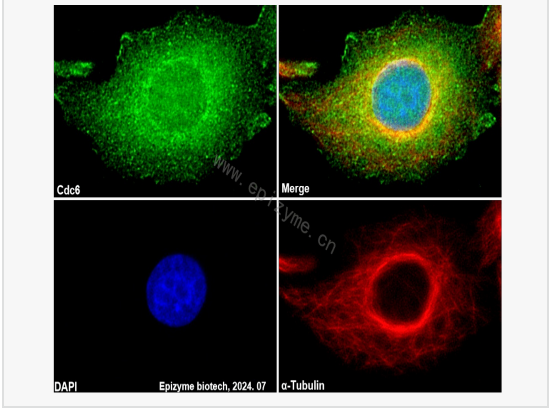
Western Blot - Anti-Cdc6 Rabbit mAb [40G19E20]
All lanes: R013869 at 1:1,000 dilution
Lane 1: HeLa (Human cervix adenocarcinoma epithelial cell) whole cell lysates
Lane 2: HCT116 (Human colorectal carcinoma epithelial cell) whole cell lysates
Lane 3: T24 (Human bladder cancer epithelial cell) whole cell 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: 63 kDa
Observed band size: 63 kDa
Developed using the ECL technique (Cat. No. SQ201).



Immunohistochemistry - Anti-Cdc6 Rabbit mAb [40G19E20]
Sample: Paraformaldehyde-fixed, paraffin embedded rat testis tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013869 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-Cdc6 Rabbit mAb [40G19E20]
Sample: Paraformaldehyde-fixed, paraffin embedded mouse lung tissue
Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 30 mins.
Primary antibody: R013869 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-Cdc6 Rabbit mAb [40G19E20]
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: R013869 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).