

Anti-CDK6 Antibody (5R792)

Product Details

Ig Type:	Rabbit IgG
Reactivity:	Human
Conjugation:	Unconjugated
Clone:	5R792
Purification:	Affinity-chromatography

Applications

1. Western Blot

-Positive WB detected in: JK whole cell lysate(20µg), K562 whole cell lysate(20µg), SY5Y whole cell lysate(20µg), HepG2 whole cell lysate(20µg), COLO205 whole cell lysate(20µg)

-All lanes: CDK6 antibody at 1:1000

-Secondary: Goat polyclonal to rabbit IgG at 1/40000 dilution

-Predicted band size: 37 kDa

-Observed band size: 37 kDa

-Exposure time: 120s

2. Immunofluorescence staining of U251 cell with TMAH-00255 at 1:10, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100 for 15 min. Then 10% normal goat serum to block non-specific protein-protein interactions. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

3. Immunofluorescence staining of U251 cell with 5% goat serum, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

Verified Activity:

4. Immunofluorescence staining of Hela cell with TMAH-00255 at 1:10, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and permeated by 0.2% TritonX-100 for 15 min. Then 10% normal goat serum to block non-specific protein-protein interactions. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

5. Immunofluorescence staining of Hela cell with 5% goat serum, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4°C. The secondary antibody was Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).

6. IHC image of TMAH-00255 diluted at 1:50 and staining in paraffin-embedded human tonsil tissue performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with 10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB. Secondary antibody only control: uses 1% BSA instead of primary antibody

7. IHC image of TMAH-00255 diluted at 1:50 and staining in paraffin-embedded human colorectal cancer performed on a Leica Bond™ system. After dewaxing and hydration, antigen retrieval was mediated by high pressure in a citrate buffer (pH 6.0). Section was blocked with

10% normal goat serum 30min at RT. Then primary antibody (1% BSA) was incubated at 4°C overnight. The primary is detected by a Goat anti-rabbit polymer IgG labeled by HRP and visualized using 0.05% DAB. Secondary antibody only control: uses 1% BSA instead of primary antibody

8. Immunoprecipitating CDK6 in K562 whole cell lysate

-Lane 1: TMAH-00255(3µg)+ K562 whole cell lysate(220µg)

-Lane 2: K562 whole cell lysate(30µg)

-Lane 3: Rabbit control IgG instead of TMAH-00563 in K562 whole cell lysate

For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/40000)

Application: ELISA,IP,WB

Recommended WB:1:500-1:5000; IP:1:200-1:1000.

Properties

Stability & Storage: Store at -20°C or -80°C for 12 months. Avoid repeated freeze-thaw cycles.

Shipping: Shipping with blue ice.

Antigen Details

Immunogen: A synthetic peptide: Human CDK6

Antigen Species: Human

Gene ID: 1021

Uniprot ID: Q00534

Synonyms: Cell division protein kinase 6;EC 2.7.11.22;Cyclin-dependent kinase 6;CDKN6;Serine/threonine-protein kinase PLSTIRE;CDK 6

Biology Area: Epigenetics and Nuclear Signaling, Cancer, Cell biology

Research Background

Serine/threonine-protein kinase involved in the control of the cell cycle and differentiation; promotes G1/S transition. Phosphorylates pRB/RB1 and NPM1. Interacts with D-type G1 cyclins during interphase at G1 to form a pRB/RB1 kinase and controls the entrance into the cell cycle. Involved in initiation and maintenance of cell cycle exit during cell differentiation; prevents cell proliferation and regulates negatively cell differentiation, but is required for the proliferation of specific cell types (e.g. erythroid and hematopoietic cells). Essential for cell proliferation within the dentate gyrus of the hippocampus and the subventricular zone of the lateral ventricles. Required during thymocyte development. Promotes the production of newborn neurons, probably by modulating G1 length. Promotes, at least in astrocytes, changes in patterns of gene expression, changes in the actin cytoskeleton including loss of stress fibers, and enhanced motility during cell differentiation. Prevents myeloid differentiation by interfering with RUNX1 and reducing its transcription transactivation activity, but promotes proliferation of normal myeloid progenitors. Delays senescence. Promotes the proliferation of beta-cells in pancreatic islets of Langerhans. May play a role in the centrosome organization during the cell cycle phases.

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