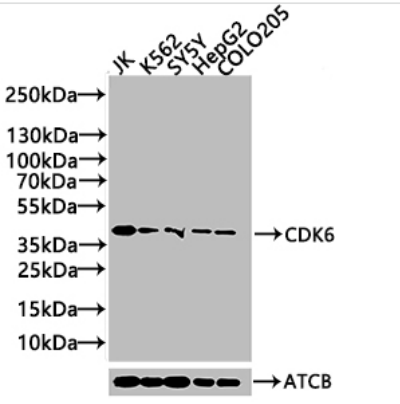
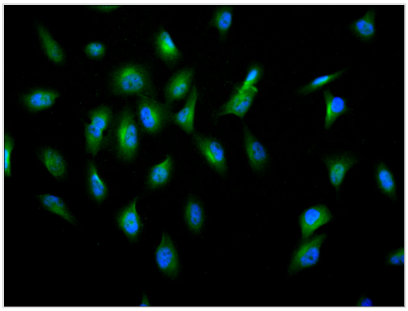
CDK6 Recombinant Monoclonal Antibody

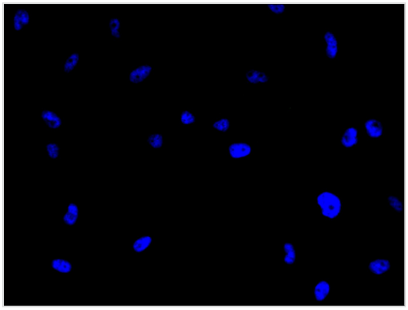
Product Code	CSB-RA555745A0HU
Storage	Upon receipt, store at -20°C or -80°C. Avoid repeated freeze.
Uniprot No.	Q00534
Immunogen	A synthesized peptide derived from human CDK6
Species Reactivity	Human
Tested Applications	ELISA, WB, IHC, IF, IP; Recommended dilution: WB:1:500-1:5000, IHC:1:50-1:100, IF:1:10-1:100, IP:1:1000-1:2000
Relevance	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 (PubMed:23918663).
Form	Liquid
Conjugate	Non-conjugated
Storage Buffer	Rabbit IgG in 10mM phosphate buffered saline , pH 7.4, 150mM sodium chloride, 0.05% BSA, 0.02% sodium azide and 50% glycerol.
Purification Method	Affinity-chromatography
Isotype	Rabbit IgG
Clonality	Monoclonal
Product Type	Recombinant Antibody
Immunogen Species	Homo sapiens (Human)
Research Area	Epigenetics and Nuclear Signaling; Cancer; Cell biology
Target Names	CDK6
Clone No.	8G3
Image	



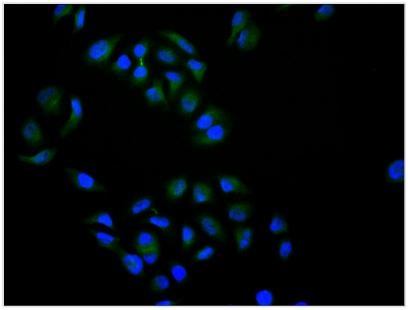
Western Blot
Positive WB detected in: JK whole cell lysate(20µg), K562 whole cell lysate(20µg), SY5Y whole cell lysate(20µg), HepG2 whole cell lysate(20µg), COLO205 whole cell lysate(20µg)
All lanes: CDK6 antibody at 1:1000
Secondary
Goat polyclonal to rabbit IgG at 1/40000 dilution
Predicted band size: 37 kDa
Observed band size: 37 kDa
Exposure time: 120s



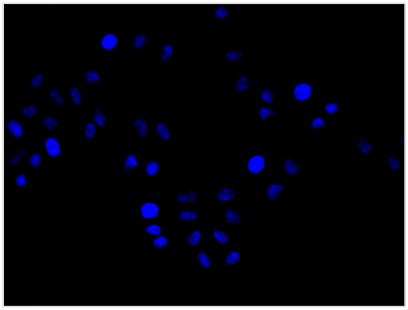
Immunofluorescence staining of U251 cell with CSB-RA555745A0HU at 1:10, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and and permeated by 0.2% TritonX-100 for 15 min. Then 10% normal goat serum to block non-specific protein-protein interactions . The cells were then incubated with the antibody overnight at 4?. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



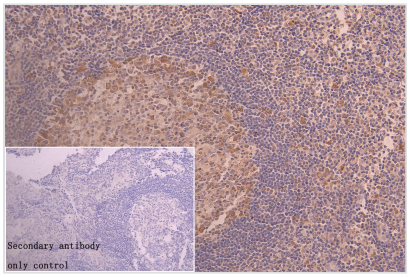
Immunofluorescence staining of U251 cell with 5% goat serum, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat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



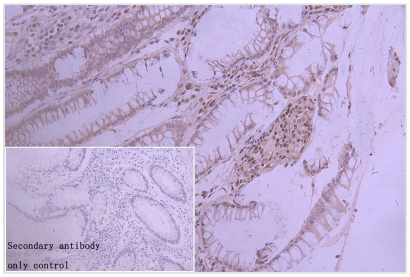
Immunofluorescence staining of Hela cell with CSB-RA555745A0HU at 1:10, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and and permeated by 0.2% TritonX-100 for 15 min. Then 10% normal goat serum to block non-specific protein-protein interactions . The cells were then incubated with the antibody overnight at 4?. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat Anti-Rabbit IgG(H+L).



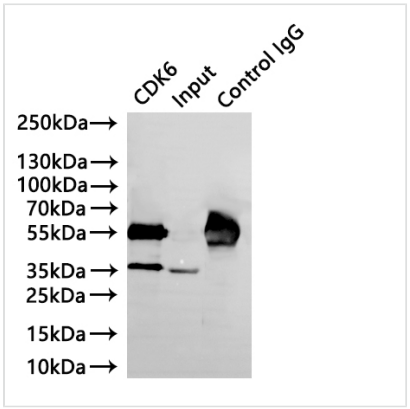
Immunofluorescence staining of Hela cell with 5% goat serum, counter-stained with DAPI. The cells were fixed in 4% formaldehyde and blocked in 10% normal Goat Serum. The cells were then incubated with the antibody overnight at 4C. The secondary antibody was Alexa Fluor 488-congugated AffiniPure Goat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



IHC image of CSB-RA555745A0HU diluted at 1:50 and staining in paraffin-embedded human tonsil tissue performed on a Leica BondTM 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



IHC image of CSB-RA555745A0HU diluted at 1:50 and staining in paraffin-embedded human colorectal cancer performed on a Leica BondTM 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



Immunoprecipitating CDK6 in K562whole cell lysate
Lane 1: CSB-RA555745A0HU(3μg)+ K562 whole cell lysate(220μg)
Lane 2: K562 whole cell lysate(30μg)
Lane 3:Rabbit control IgG instead of CSB-RA555745A0HU in K562 whole cell lysate
For western blotting, a HRP-conjugated Protein G antibody was used as the secondary antibody (1/40000)

Usage

For Research Use Only. Not for use in diagnostic or therapeutic procedures.