

Cdk6 Rabbit mAb

Catalog No: #49139



Package Size: #49139-1 50ul #49139-2 100ul

Orders: order@signalwayantibody.com

Support: tech@signalwayantibody.com

Description

Product Name	Cdk6 Rabbit mAb
Host Species	Recombinant Rabbit
Clonality	Monoclonal antibody
Clone No.	SD20-50
Purification	ProA affinity purified
Applications	WB, ICC/IF, IHC, FC
Species Reactivity	Hu
Immunogen Description	recombinant protein
Other Names	CDK 6 antibody CDK6 antibody CDK6_HUMAN antibody Cell division protein kinase 6 antibody Crk 2 antibody Crk2 antibody Cyclin dependent kinase 6 antibody Cyclin-dependent kinase 6 antibody MGC59692 antibody p40 antibody PLSTIRE antibody Serine/threonine protein kinase PLSTIRE antibody Serine/threonine-protein kinase PLSTIRE antibody STQTL11 antibody
Accession No.	Swiss-Prot#:Q00534
Calculated MW	37 kDa
Formulation	1*TBS (pH7.4), 1%BSA, 40%Glycerol. Preservative: 0.05% Sodium Azide.
Storage	Store at -20°C

Application Details

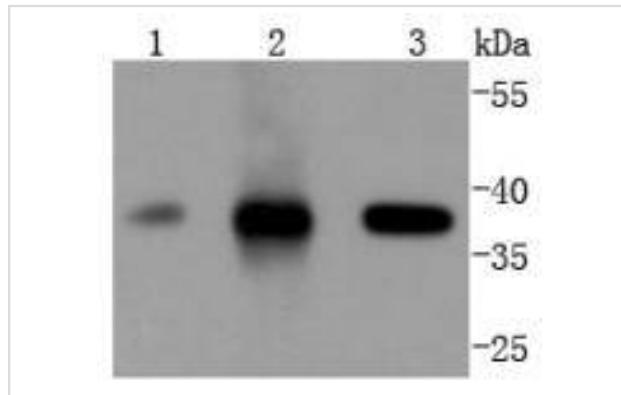
WB: 1:1,000-1:2,000

IHC: 1:50-1:200

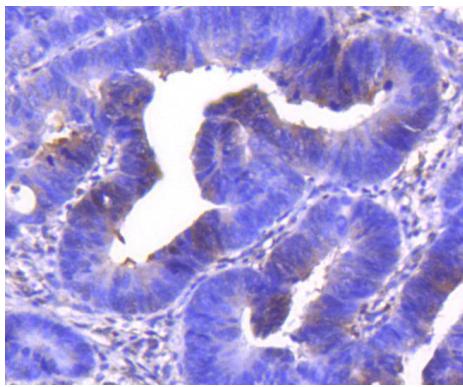
ICC: 1:50-1:200

FC: 1:50-1:100

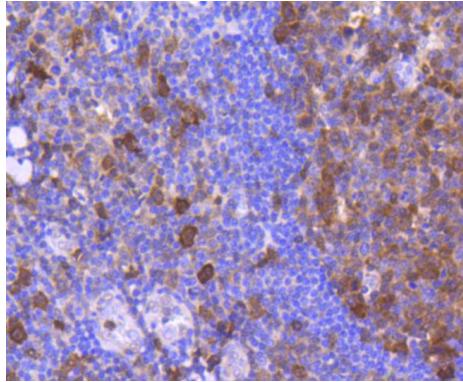
Images



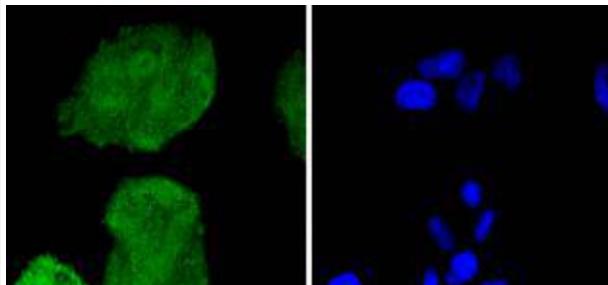
Western blot analysis of Cdk6 on different lysates using anti-Cdk6 antibody at 1/1,000 dilution. Positive control: Lane 1: Jurkat Lane 2: K562 Lane 3: HeLa



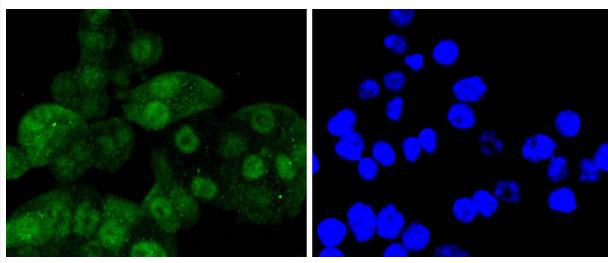
Immunohistochemical analysis of paraffin-embedded human colon cancer tissue using anti-Cdk6 antibody. Counter stained with hematoxylin.



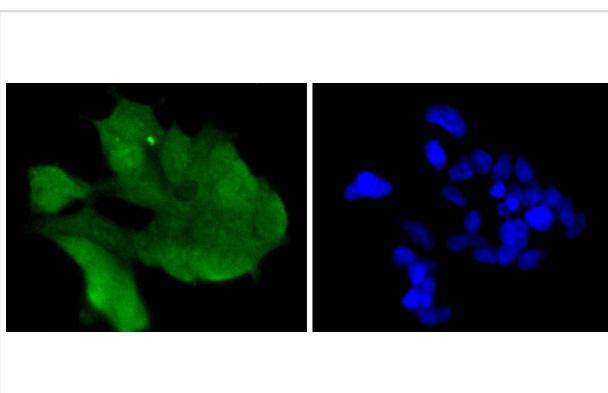
Immunohistochemical analysis of paraffin-embedded human tonsil tissue using anti-Cdk6 antibody. Counter stained with hematoxylin.



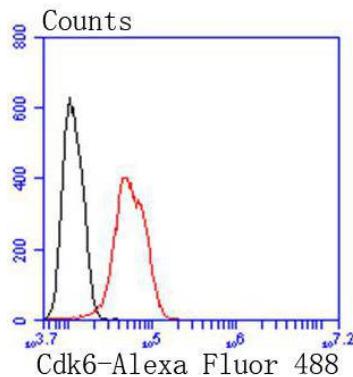
ICC staining Cdk6 in HeLa cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cdk6 in SW480 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



ICC staining Cdk6 in 293 cells (green). The nuclear counter stain is DAPI (blue). Cells were fixed in paraformaldehyde, permeabilised with 0.25% Triton X100/PBS.



Flow cytometric analysis of HeLa cells with Cdk6 antibody at 1/50 dilution (red) compared with an unlabelled control (cells without incubation with primary antibody; black). Alexa Fluor 488-conjugated goat anti rabbit IgG was used as the secondary antibody.

Background

Cell cycle progression is controlled in part by a family of cyclin proteins and cyclin dependent kinases (Cdks). Cdk proteins work in concert with the cyclins to phosphorylate key substrates involved in each phase of cell cycle progression. Another family of proteins, Cdk inhibitors, also plays a role in regulating the cell cycle by binding to cyclin-Cdk complexes and modulating their activity. Several Cdk proteins have been identified, including Cdk2-Cdk8, PCTAIRE-1-PCTAIRE-3, PITALRE and PITSLRE. Cdk6 is known to associate with cyclins D1, D2 and D3 and to be involved with the G1/S transition of the cell cycle. Multiple inhibitors of Cdk6 have been identified, including p18 and p19. These inhibitors bind to both free and complexed Cdk6, and they inhibit the activity of the cyclin D-bound Cdk6.

References

1. Yuan, W. et al. 2016. CDK6 mediates the effect of attenuation of miR-1 on provoking cardiomyocyte hypertrophy. *Mol. Cell. Biochem.*.. 412: 289-96.
2. Guo, B. et al. 2015. Naringin suppresses the metabolism of A375 cells by inhibiting the phosphorylation of c-Src. *Tumour biology : the journal of the International Society for Oncodevelopmental Biology and Medicine.*

Note: This product is for in vitro research use only and is not intended for use in humans or animals.