Product Name: KO-Validated CDK6 Recombinant Rabbit Monoclonal Antibody
Catalog #: KVAb00079
For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC
Reactivity	Human
Conjugation	Unconjugated
Modification	Unmodified
Isotype	Rabbit IgG
Clonality	Rabbit mAb
Form	Liquid
Storage	Aliquot and store at -20°C (valid for 12 months). Avoid freeze/thaw cycles.
Shipping	Ice bags
Buffer	Supplied in PBS (pH 7.4) containing 50% glycerol, and 0.02% sodium azide.
Purification	Affinity purification

Application

Dilution Ratio	WB 1:1,000-1:5,000; FC 1:200-1:2,000; ICC 1:100-1:1,000
Molecular Weight	Calculated MW: 36.9kDa

Antigen Information

Gene Name	CDK6
Alternative Names	CDK6; Cyclin Dependent Kinase 6; PLSTIRE; Serine/Threonine-Protein Kinase PLSTIRE; Cell Division Protein Kinase 6; Cyclin-Dependent Kinase 6; EC 2.7.11.22; EC 2.7.11; MCPH12; CDKN6
Gene ID	1021.0
SwissProt ID	Q00534
Immunogen	A synthesized peptide derived from human Cdk6

Background

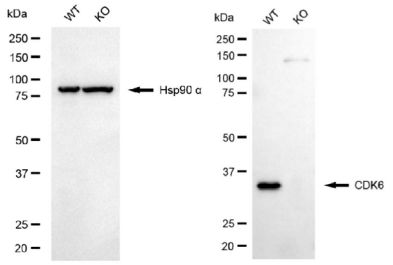
The protein encoded by this gene is a member of the CMGC family of serine/threonine protein kinases. This kinase is a catalytic subunit of the protein kinase complex that is important for cell cycle G1 phase progression and G1/S transition. The activity of

this kinase first appears in mid-G1 phase, which is controlled by the regulatory subunits including D-type cyclins and members of INK4 family of CDK inhibitors. This kinase, as well as CDK4, has been shown to phosphorylate, and thus regulate the activity of, tumor suppressor protein Rb. Altered expression of this gene has been observed in multiple human cancers. A mutation in this gene resulting in reduced cell proliferation, and impaired cell motility and polarity, and has been identified in patients with primary microcephaly. [provided by RefSeq, Aug 2017]

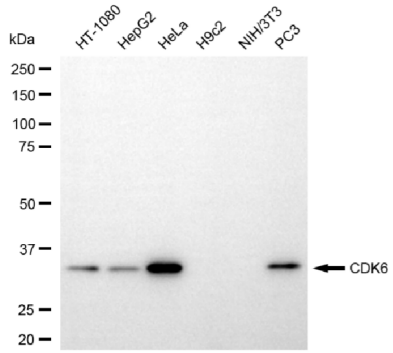
Research Area

Cell Biology,Epigenetics and Nuclear Signaling,Cancer

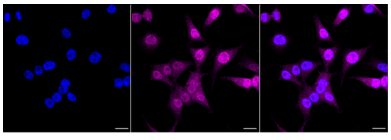
Image Data



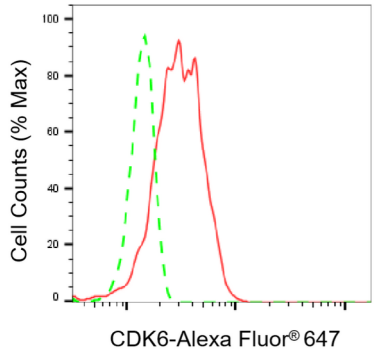
Western blotting analysis using CDK6 antibody (KVAb00079). CDK6 expression in wild-type (WT) and CDK6 knockout (KO) 293T cells with 20 µg of total cell lysates. Hsp90 α serves as a loading control. The blot was incubated with CDK6 antibody (KVAb00079, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using CDK6 antibody (KVAb00079). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with CDK6 antibody (KVAb00079, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunocytochemical staining of HAP-1 cells with CDK6 antibody (KVAb00079, 1:1,000). Nuclei were stained blue with DAPI; CDK6 was stained magenta with Alexa Fluor® 647. Images were taken using Leica stellaris 5. Protein abundance based on laser Intensity and smart gain: Medium. Scale bar, 20 µm.



Flow cytometric analysis of CDK6 expression in HAP-1 cells using CDK6 antibody (KVAb00079, 1:2,000). Green, isotype control; red, CDK6.