

Product Name: KD-Validated Cyclin Dependent Kinase 16 Recombinant Rabbit Monoclonal Antibody

Catalog #: KVA01023

For research use only.

Summary

Description	KO&KD-Validated antibody
Host	Rabbit
Application	WB,FCM,ICC,IHC-P
Reactivity	Human,Mouse,Rat
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; IHC-P 1:100-1:200
Molecular Weight	Calculated MW: 55.7kDa

Antigen Information

Gene Name	CDK16
Alternative Names	CDK16; Cyclin Dependent Kinase 16; PCTAIRE1; PCTGAIRE; PCTAIRE; PCTK1; Serine/Threonine-Protein Kinase PCTAIRE-1; Cell Division Protein Kinase 16; PCTAIRE-Motif Protein Kinase; Cyclin-Dependent Kinase 16; EC 2.7.11.22; FLJ16665; Testis Secretory Sperm-Binding Protein Li 224n; Serine/Threonine-Protein Kinase; PCTAIRE Protein Kinase; EC 2.7.11
Gene ID	5127.0
SwissProt ID	Q00536
Immunogen	A synthesized peptide derived from human PCTAIRE1

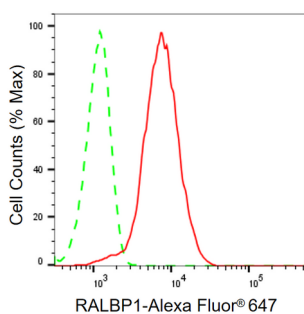
Background

The protein encoded by this gene belongs to the cdc2/cdkx subfamily of the ser/thr family of protein kinases. It may play a role in signal transduction cascades in terminally differentiated cells; in exocytosis; and in transport of secretory cargo from the endoplasmic reticulum. This gene is thought to escape X inactivation. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq, Dec 2009]

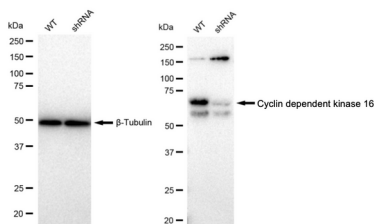
Research Area

Signal Transduction

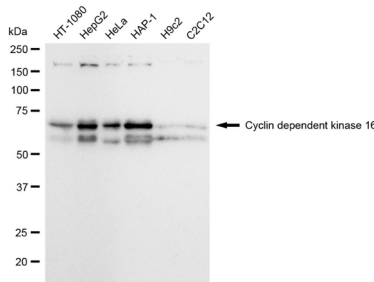
Image Data



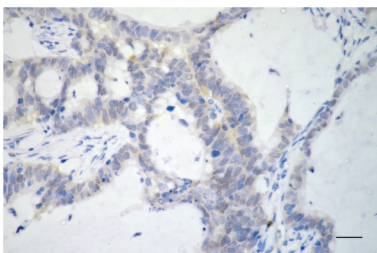
Flow cytometric analysis of cyclin dependent kinase 16 expression in HepG2 cells using cyclin dependent kinase 16 antibody (KVA01023, 1:2,000). Green, isotype control; red, cyclin dependent kinase 16.



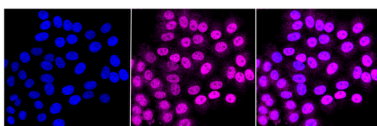
Western blotting analysis using cyclin dependent kinase 16 antibody (KVA01023). Cyclin dependent kinase 16 expression in wild type (WT) and cyclin dependent kinase 16 (CDK16) shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control. The blot was incubated with cyclin dependent kinase 16 antibody (KVA01023, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Western blotting analysis using Cyclin dependent kinase 16 antibody (KVA01023). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with Cyclin dependent kinase 16 antibody (KVA01023, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody (APS0635, 1:10,000) respectively.



Immunohistochemistry was performed on paraffin-embedded human sigmoid colon carcinoma using cyclin dependent kinase 16 antibody (KVA01023, 1:200). Antigen retrieval was done in sodium citrate buffer (pH 6.0). DAB was used for detection, with hematoxylin counterstaining. Images were acquired using a Nikon Ci-L Plus microscope (40× objective). Scale bar: 25 µm.



Immunocytochemical staining of HepG2 cells with Cyclin dependent kinase 16 antibody (KVA01023, 1:1,000). Nuclei were stained blue with DAPI; Cyclin dependent kinase 16 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 .