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KD-Validated Anti-Cyclin dependent kinase 16 Rabbit Monoclonal Antibody

Rabbit monoclonal antibody
Catalog # AGI1577

Specification

KD-Validated Anti-Cyclin dependent kinase 16 Rabbit Monoclonal Antibody - Product Information

Application	**WB, FC, ICC**
Primary Accession	Q00536
Reactivity	**Rat, Human, Mouse**
Clonality	**Monoclonal**
Isotype	**Rabbit IgG**
Calculated MW	**Predicted, 56 kDa , observed, 62-68 kDa KDa**
Gene Name	**CDK16**
Aliases	**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**
Immunogen	**A synthesized peptide derived from human PCTAIRE1**

KD-Validated Anti-Cyclin dependent kinase 16 Rabbit Monoclonal Antibody - Additional Information

Gene ID	**5127**

Other Names
Cyclin-dependent kinase 16, 2.7.11.22, Cell division protein kinase 16, PCTAIRE-motif protein kinase 1, Serine/threonine-protein kinase PCTAIRE-1, CDK16, PCTAIRE1, PCTK1

KD-Validated Anti-Cyclin dependent kinase 16 Rabbit Monoclonal Antibody - Protein Information

Name CDK16

Synonyms PCTAIRE1, PCTK1

Function
Protein kinase that plays a role in vesicle-mediated transport processes and exocytosis. Regulates GH1 release by brain neurons. Phosphorylates NSF, and thereby regulates NSF oligomerization. Required for normal spermatogenesis. Regulates neuron differentiation and dendrite development (By similarity). Plays a role in the regulation of insulin secretion in response to changes in blood glucose levels. Can phosphorylate CCNY at 'Ser-336' (in vitro).

Cellular Location
Cytoplasm. Cytoplasmic vesicle, secretory vesicle {ECO:0000250|UniProtKB:Q63686} Cell membrane; Peripheral membrane protein; Cytoplasmic side. Synapse, synaptosome {ECO:0000250|UniProtKB:Q63686}. Note=Colocalizes with insulin in pancreas islets. Recruited to the cell membrane by CCNY

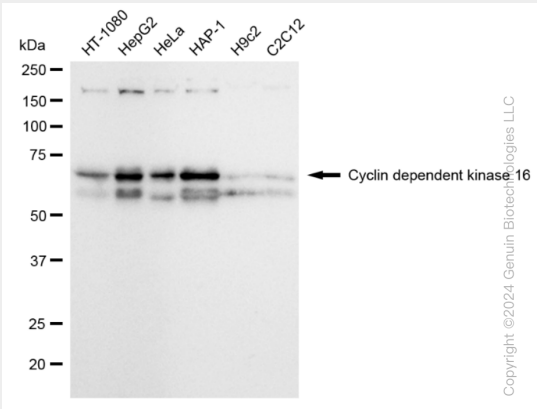
Tissue Location
Detected in pancreas islets (at protein level). Detected in brain and pancreas.

KD-Validated Anti-Cyclin dependent kinase 16 Rabbit Monoclonal Antibody - Protocols

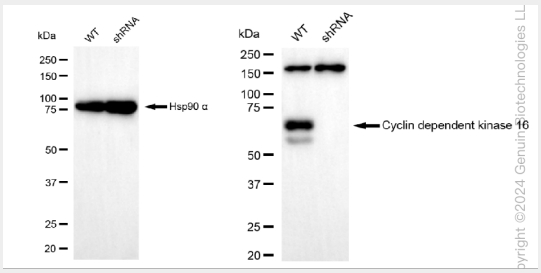
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

KD-Validated Anti-Cyclin dependent kinase 16 Rabbit Monoclonal Antibody - Images



Western blotting analysis using anti-Cyclin dependent kinase 16 antibody (Cat#AGI1577). Total cell lysates (30 µg) from various cell lines were loaded and separated by SDS-PAGE. The blot was incubated with anti-Cyclin dependent kinase 16 antibody (Cat#AGI1577, 1:5,000) and HRP-conjugated goat anti-rabbit secondary antibody respectively.



Western blotting analysis using anti-Cyclin dependent kinase 16 antibody (Cat#AGI1577). Cyclin dependent kinase 16 expression in wild type (WT) and cyclin dependent kinase 16 shRNA knockdown (KD) HeLa cells with 30 µg of total cell lysates. β-Tubulin serves as a loading control.

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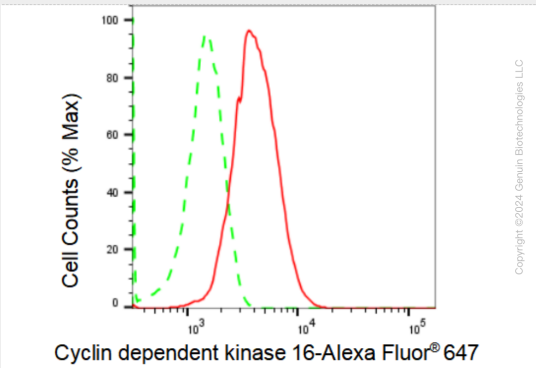
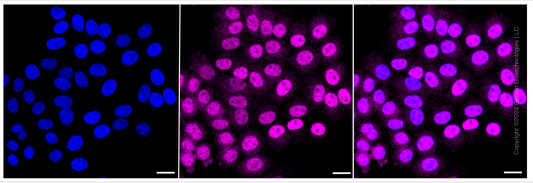


Flow cytometric analysis of Cyclin dependent kinase 16 expression in HepG2 cells using Cyclin dependent kinase 16 antibody (Cat#AGI1577, 1:2,000). Green, isotype control; red, Cyclin dependent kinase 16.



Immunocytochemical staining of HepG2 cells with Cyclin dependent kinase 16 antibody (AGI1577, 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.