



Rabbit Anti-CDKN3 antibody

SL5743R

Product Name:	CDKN3
Chinese Name:	Cyclin依赖性激酶抑制蛋白3抗体
Alias:	Cdk associated protein phosphatase; CDI1; CDK2 associated dual specificity phosphatase; CIP2; Cyclin dependent kinase inhibitor 3; Cyclin dependent kinase interactor 1; Cyclin dependent kinase-interacting protein 2; KAP1; Kinase associated phosphatase.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Chicken,Dog,Pig,Cow,Horse,Sheep,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	24kDa
Cellular localization:	cytoplasmic
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human CDKN3:51-150/212
Lsotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.
PubMed:	PubMed
Product Detail:	CDKN3 is a second dual specificity phosphatase that interacts with cyclin dependent kinases.The ability of CDKN3 to bind multiple cyclin-dependent kinases suggests that it may be a critical control element in cell cycle regulation, presumably by regulating the phosphorylation state of a Cdk or Cdk-associated protein.

Function:

May play a role in cell cycle regulation. Dual specificity phosphatase active toward substrates containing either phosphotyrosine or phosphoserine residues. Dephosphorylates CDK2 at 'Thr-160' in a cyclin-dependent manner.

Subunit:

Interacts with cyclin-dependent kinases such as CDK1, CDK2 and CDK3. Does not interact with CDK4. Interacts (via C-terminus) with phosphorylated CDK2 (via C-terminal helix). Interacts with MS4A3 (via C-terminus); the interaction enhances CDKN3 enzymatic activity.

Subcellular Location:

Cytoplasm, perinuclear region.

DISEASE:

Defects in CDKN3 are found in patients with hepatocellular carcinoma (HCC) [MIM:114550].

Similarity:

Belongs to the protein-tyrosine phosphatase family.

SWISS:

Q16667

Gene ID:

1033

Database links:

[Entrez Gene: 1033](#)Human

[Entrez Gene: 72391](#)Mouse

[Entrez Gene: 397589](#)Pig

[Entrez Gene: 289993](#)Rat

[Omim: 123832](#)Human

[SwissProt: Q16667](#)Human

[SwissProt: Q810P3](#)Mouse

[SwissProt: Q9MYN5](#)Pig

[SwissProt: B2RZ50](#)Rat

[Unigene: 84113](#)Human

[Unigene: 272394](#)Mouse

[Unigene: 107220](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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