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CDKN3 Rabbit pAb

Catalog # AP100182

Product Information

Application	IHC-P, IHC-F, IF
Primary Accession	Q16667
Other Accession	Q16667
Reactivity	Human
Predicted	Rat, Pig, Mouse, Chicken, Dog, Horse, Sheep
Host	Rabbit
Clonality	Polyclonal
Calculated MW	23805
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human CDKN3
Epitope Specificity	51-150/212
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the protein-tyrosine phosphatase family.
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.
DISEASE	A primary malignant neoplasm of epithelial liver cells. The major risk factors for HCC are chronic hepatitis B virus (HBV) infection, chronic hepatitis C virus (HCV) infection, prolonged dietary aflatoxin exposure, alcoholic cirrhosis, and cirrhosis due to other causes.
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	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.

Additional Information

Gene ID	1033
Other Names	CDI1; CIP2; KAP; KAP1; 2410006H10Rik; CDKN3_HUMAN; CDKN3; CDK2-associated dual-specificity phosphatase; Cyclin-dependent kinase interactor 1; Cyclin-dependent kinase-interacting protein 2; Kinase-associated phosphatase; 3.1.3.16; 3.1.3.48; CDKN3_MOUSE; CDKN3_PIG; CDKN3_RAT; cyclin dependent kinase inhibitor 3; kinase associated phosphatase; cyclin-dependent kinase inhibitor; CDK2-associated dual specificity phosphatase

Dilution	IHC-P=1:100-500,IHC-F=1:100-500,IF=1:100-500
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. 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.

Protein Information

Name	CDKN3 (HGNC:1791)
Synonyms	CDI1, CIP2, KAP
Function	May play a role in cell cycle regulation. Dual specificity CC phosphatase active toward substrates containing either phosphotyrosine or phosphoserine residues (PubMed:8127873, PubMed:8242750). Dephosphorylates CDK2 at 'Thr-160' in a cyclin-dependent manner (PubMed:7569954).
Cellular Location	Cytoplasm, perinuclear region

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.