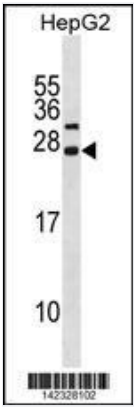
CDKN3 Antibody – Rabbit Polyclonal

PRODUCT OVERVIEW

Product Name	CDKN3, Polyclonal Antibody
Full Product Name	CDKN3, NT (CDKN3, CDI1, CIP2, KAP, Cyclin-dependent kinase inhibitor 3, CDK2-associated dual-specificity phosphatase, Cyclin-dependent kinase interactor 1, Cyclin-dependent kinase-interacting protein 2, Kinase-associated phosphatase) (Biotin)
Product Gene Name	anti-CDKN3 antibody
Product Synonym Names	CDKN3; CDI1; CIP2; KAP; Cyclin-dependent kinase inhibitor 3; CDK2-associated dual-specificity phosphatase; Cyclin-dependent kinase interactor 1; Cyclin-dependent kinase-interacting protein 2; Kinase-associated phosphatase
Clonality	Polyclonal
Isotype	IgG
Host	Rabbit
Species Reactivity	Human
Form/Format	Supplied as a liquid in PBS, pH 7.2. No preservative added. Labeled with Biotin.
Purity/Purification	Purified by Protein A Affinity Chromatography.
Preparation and Storage	Store product at 4 degree C if to be used immediately within two weeks. For long-term storage, aliquot to avoid repeated freezing and thawing and store at -20 degree C. Aliquots are stable at -20 degree C for 12 months after receipt. Dilute required amount only prior to immediate use. Further dilutions can be made in assay buffer. For maximum recovery of product, centrifuge the original vial after thawing and prior to removing the cap.
OMIM	phenotype 123832
3D Structure	ModBase 3D Structure for Q16667
Immunogen	CDKN3 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 39-68 amino acids from the N-terminal region of human CDKN3.
Conjugate	Biotin
Note	Preservative Free
Product Categories/Family for anti-CDKN3 antibody	Antibodies; Protein Kinase Inhibitors
Applications Tested/Suitable for anti-CDKN3 antibody	Western Blot (WB), ELISA (EIA)
Application Notes for anti-CDKN3 antibody	WB: 1:100-500 ELISA: 1:1,000 Applications are based on unconjugated antibody.
Related Product Information for anti-CDKN3 antibody	The protein encoded by this gene belongs to the dual specificity protein phosphatase family. It was identified as a cyclin-dependent kinase inhibitor, and has been shown to interact with, and dephosphorylate CDK2 kinase, thus prevent the activation of CDK2 kinase. This gene was reported to be deleted, mutated, or overexpressed in several kinds of cancers. Alternatively spliced transcript variants encoding different isoforms have been found for this gene.
Product References and Citations for anti-CDKN3 antibody	Shimada, M., et al. Hum. Genet. 128(4):433-441(2010). Jiang, R., et al. Int. J. Cancer 126(5):1263-1274(2010). Okamoto, K., et al. Biochem. Biophys. Res. Commun. 351(1):216-222(2006). Hsieh, M.J., et al. Biochem. Biophys. Res. Commun. 349(2):573-581(2006). Chinami, M., et al. J. Biol. Chem. 280(17):17235-17242(2005).

Other Notes	Small volumes of anti-CDKN3 antibody vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CDKN3 purchase	MBS6284745 is an antibody targeting CDKN3. Also known as CDKN3, NT (CDKN3, CDI1, CIP2, KAP, Cyclin-dependent kinase inhibitor 3, CDK2-associated dual-specificity phosphatase, Cyclin-dependent kinase interactor 1, Cyclin-dependent kinase-interacting protein 2, Kinase-associated phosphatase) (Biotin). Reactive in Human. Host: Rabbit.



Western Blot (WB) of anti-CDKN3 antibody
CDKN3 Antibody (N-term) western blot analysis in HepG2 cell line lysates (35ug/lane).This demonstrates the CDKN3 antibody detected the CDKN3 protein (arrow).

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CDKN3. It may not necessarily be applicable to this product.

NCBI GI #	17981704
NCBI Accession #	NP_005183.2
UniProt Primary Accession #	Q16667
GenBank Nucleotide #	NM_005192.3
NCBI Official Full Name	cyclin-dependent kinase inhibitor 3 isoform 1
UniProt Protein Name	Cyclin-dependent kinase inhibitor 3
UniProt Synonym Protein Names	CDK2-associated dual-specificity phosphatase; Cyclin-dependent kinase interactor 1; Cyclin-dependent kinase-interacting protein 2; Kinase-associated phosphatase
Protein Family	Cyclin-dependent kinase inhibitor
UniProt Gene Name	CDKN3
UniProt Synonym Gene Names	CDI1; CIP2; KAP
UniProt Entry Name	CDKN3_HUMAN

UniProt Comments for CDKN3	CDKN3: 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. Defects in CDKN3 are found in patients with hepatocellular carcinoma (HCC). Belongs to the protein-tyrosine phosphatase family. 2 isoforms of the human protein are produced by alternative splicing. Protein type: Motility/polarity/chemotaxis; Protein phosphatase, dual-specificity; EC 3.1.3.16; Cell cycle regulation; EC 3.1.3.48 Chromosomal Location of Human Ortholog: 14q22 Cellular Component: perinuclear region of cytoplasm; cytoplasm Molecular Function: protein binding; protein tyrosine/serine/threonine phosphatase activity; protein tyrosine phosphatase activity; protein serine/threonine phosphatase activity Biological Process: negative regulation of cell proliferation; regulation of cyclin-dependent protein kinase activity; cell cycle arrest; G1/S transition of mitotic cell cycle Disease: Hepatocellular Carcinoma
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