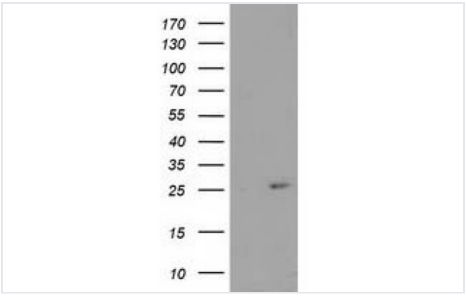
CDKN3 Antibody – Mouse Monoclonal

PRODUCT OVERVIEW

Product Name	CDKN3, Monoclonal Antibody
Full Product Name	CDKN3 antibody
Product Gene Name	anti-CDKN3 antibody
Product Synonym Names	Monoclonal CDKN3; Anti-CDKN3; Cyclin-Dependent Kinase Inhibitor 3; Cdk2-Associated Dual Specificity Phosphatase; CDI1; CIP2; FLJ25787; KAP; KAP1; MGC70625; CDKN3; CDKN 3; CDKN-3
Clonality	Monoclonal
Isotype	IgG1
Clone Number	5H1
Host	Mouse
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Purity/Purification	CDKN3 antibody was purified by affinity chromatography.
Concentration	500 ug-1 mg/ml (lot specific)
Preparation and Storage	Store at 4 degree C for short term storage. Aliquot and store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.
Molecular Weight	19,359 Da
OMIM	114550
3D Structure	ModBase 3D Structure for Q16667
Cross-Reactivity	Human
Immunogen	CDKN3 antibody was raised in mouse using a full length recombinant protein of human CDKN3 (NP_005183) produced in HEK293T cells, as the immunogen.
Product Categories/Family for anti-CDKN3 antibody	Proteases; Inhibitors; & Enzymes
Applications Tested/Suitable for anti-CDKN3 antibody	Flow Cytometry (FC/FACS), Western Blot (WB)
Application Notes for anti-CDKN3 antibody	FC: 1:100 WB: 1:2000
Related Product Information for anti-CDKN3 antibody	MBS830604 is an antibody targeting CDKN3. Also known as CDKN3 antibody. Host: Mouse. Mouse monoclonal CDKN3 antibody
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.



Western Blot (WB) of anti-CDKN3 antibody
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant CDKN3 protein (Right) or empty vector (Left) detected with CDKN3 antibody

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 GeneID	1033
NCBI Accession #	NP_005183
UniProt Primary Accession #	Q16667
UniProt Secondary Accession #	Q53ZU6; Q5U0M4; Q6P1N8; Q99585; Q9BPW7; Q9BY36; Q9C042; Q9C046; Q9C047; Q9C049; Q9C051
UniProt Related Accession #	Q16667
GenBank Nucleotide #	NM_005192.3
NCBI Official Full Name	cyclin-dependent kinase inhibitor 3 isoform 1
NCBI Official Synonym Full Names	cyclin-dependent kinase inhibitor 3
NCBI Official Symbol	CDKN3
NCBI Official Synonym Symbols	KAP; CDI1; CIP2; KAP1
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
NCBI Protein Information	cyclin-dependent kinase inhibitor 3
NCBI Summary for CDKN3	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. [provided by RefSeq, Aug 2008]

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; EC 3.1.3.16; Cell cycle regulation; Protein phosphatase, dual-specificity; 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
Research Articles on CDKN3	**1.** these data identify KAP as a major regulator of cell division via interactions with numerous target proteins. aberrant splicing or miR-26a decreases KAP expression to promote glioblastoma growth and invasion.
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