# CDKN3 Monoclonal Antibody

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| **Catalog No** | BYmab-16704 |
| **Isotype** | IgG |
| **Reactivity** | Human;Mouse |
| **Applications** | WB |
| **Gene Name** | CDKN3 |
| **Protein Name** | Cyclin-dependent kinase inhibitor 3 |
| **Immunogen** | The antiserum was produced against synthesized peptide derived from human CDKN3. AA range:31-80 |
| **Specificity** | CDKN3 Monoclonal Antibody detects endogenous levels of CDKN3 protein. |
| **Formulation** | Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide. |
| **Source** | Monoclonal, Mouse,IgG |
| **Purification** | The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen. |
| **Dilution** | WB 1:500-2000 |
| **Concentration** | 1 mg/ml |
| **Purity** | ≥90% |
| **Storage Stability** | -20°C/1 year |
| **Synonyms** | 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 |
| **Observed Band** | 23kD |
| **Cell Pathway** | Cytoplasm, perinuclear region . |
| **Tissue Specificity** | Retinoblastoma, |
| **Function** | catalytic activity:A phosphoprotein + H(2)O = a protein + phosphate.,catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.,disease:Defects in CDKN3 are found in patients with hepatocellular carcinoma (HCC) [MIM:114550].,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.,induction:Up-regulated in breast and prostate cancer cells.,similarity:Belongs to the protein-tyrosine phosphatase family.,subunit:Interacts with cyclin-dependent kinases such as CDC2, CDK2 and |

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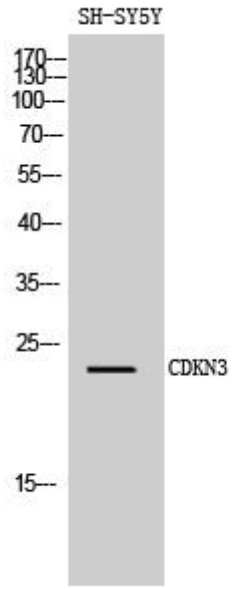
| | CDK3. Does not interact with CDK4. Interacts (via C-terminus) with phosphorylated CDK2 (via C-terminal helix). Interacts with MS4A3 (via C-terminus); the interaction enhances CDKN3 enzymatic activity., |
| **Background** | The protein encoded by this gene belongs to the dual specificity protein phosphatase 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], |
| **matters needing attention** | Avoid repeated freezing and thawing! |
| **Usage suggestions** | This product can be used in immunological reaction related experiments. For more information, please consult technical personnel. |

## Products Images




Western Blot analysis of various cells using CDKN3 Monoclonal Antibody