Mouse CDK2 Monoclonal Antibody | anti-CDK2 antibody

CDK2 antibody

CATALOG #	HOST	APPLICATIONS
AAA106351	**Mouse**	**Western Blot, Immunofluorescence, Flow Cytometry, Functional Assay**

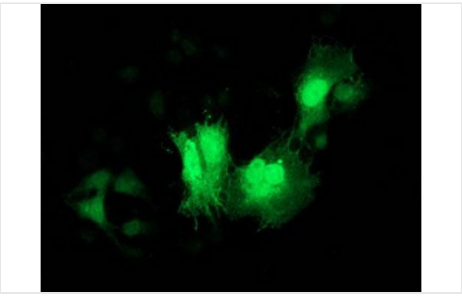
PRODUCT SYNONYMS

CDK2; Monoclonal Antibody; CDK2 antibody; Monoclonal CDK2; Anti-CDK2; Cyclin dependent kinase 2; Cell division protein kinase 2; p33 protein kinase; Cdc2-related protein kinase; Cell devision kinase 2; CDK 2; CDK-2; anti-CDK2 antibody

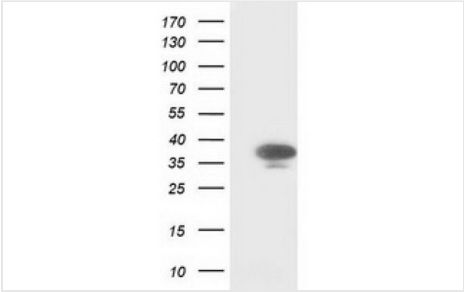
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG2a
Clone Number	4D3
Purity/Purification	CDK2 antibody was purified by affinity chromatography.
Form/Format	Supplied in PBS buffer, pH 7.3, containing 1% BSA, 50% glycerol and 0.02% sodium azide.
Concentration	500 ug-1 mg/ml (varies by lot)
Sequence Length	298
Applicable Applications for anti-CDK2 antibody	WB (Western Blot), IF (Immunofluorescence), FCM/FACS (Flow Cytometry)
Biological Significance	CDK2 is a member of the Ser/Thr protein kinase family. This protein kinase is highly similar to the gene products of S. cerevisiae cdc28, and S. pombe cdc2. It is a catalytic subunit of thecyclin-dependent protein kinase complex, whose activity is restricted to the G1-S phase, and essential for cell cycleG1/S phase transition. This protein associates with and regulated by the regulatory subunits of the complex includingcyclin A or E, CDK inhibitor p21Cip1 (CDKN1A) and p27Kip1 (CDKN1B). Its activity is also regulated by its protein phosphorylation. Two alternatively spliced variants and multiple transcription initiation sites of this gene have beenreported.
Cross-Reactivity	Human
Immunogen	CDK2 antibody was raised in mouse using a full length recombinant protein of human CDK2 (NP_001789) produced in HEK293T cells, as the immunogen.
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.

IMAGES



IF (Immunofluorescence)
Immunofluorescent staining of COS7 cells transiently transfected with recombinant CDK2 protein using CDK2 antibody



WB (Western Blot)
Western Blot analysis of HEK293T cell lysates (5 ug) transfected with either recombinant CDK2 protein (Right) or empty vector (Left) detected with CDK2 antibody

ADDITIONAL INFORMATION

Related Product Information for anti-CDK2 antibody	Mouse monoclonal CDK2 antibody
Product Categories/Family for anti-CDK2 antibody	Proteases; Inhibitors; & Enzymes

NCBI AND UNIPROT INFORMATION

NCBI GI #	16936528
NCBI GeneID	1017
NCBI Accession #	NP_001789
NCBI GenBank Nucleotide #	NM_001798.3
UniProt Accession #	P24941; O75100; A8K7C6
Molecular Weight	30,035 Da
NCBI Official Full Name	cyclin-dependent kinase 2 isoform 1
NCBI Official Synonym Full Names	cyclin-dependent kinase 2
NCBI Official Symbol	CDK2
NCBI Official Synonym Symbols	CDKN2; p33(CDK2)
NCBI Protein Information	cyclin-dependent kinase 2
UniProt Protein Name	Cyclin-dependent kinase 2
UniProt Gene Name	**CDK2**
UniProt Synonym Gene Names	CDKN2
UniProt Entry Name	CDK2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: https://www.aaabiotech.com/monoclonal/cdk2-antibody-clone-4d3-western-blot-immunofluorescence-flow-cytometry-elisa/106351