

Mouse Cdc2 Monoclonal Antibody | anti-Cdc2 antibody

Cdc2 antibody

CATALOG # AAA106563	HOST Mouse	APPLICATIONS Western Blot, Flow Cytometry, Functional Assay, ELISA
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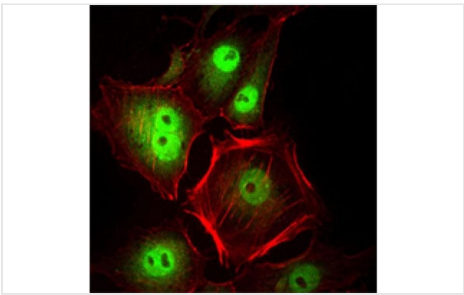
PRODUCT SYNONYMS

Cdc2; Monoclonal Antibody; Cdc2 antibody; Monoclonal Cdc2; Anti-Cdc2; Cell division control protein 2 homolog; Cdk1; Cdc 2; Cdc-2; Cyclin dependent kinase 1; anti-Cdc2 antibody

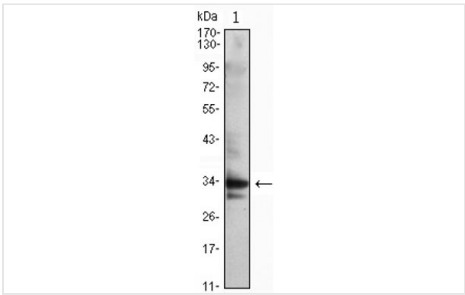
PRODUCT SPECIFICATIONS

Host	Mouse
Clonality	Monoclonal
Isotype	IgG1
Clone Number	8C5A7F10
Form/Format	Supplied as a liquid in ascitic fluid containing 0.03% sodium azide.
Concentration	1.0 mg/ml (varies by lot)
Sequence Length	297
Applicable Applications for anti-Cdc2 antibody	WB (Western Blot), FCM/FACS (Flow Cytometry), ELISA
Biological Significance	Cdc2 plays a key role in the control of the eukaryotic cell cycle, where it is required for entry into S-phase and mitosis. Cdc2 exists as a complex with both cyclin A and cyclin B. The best characterized of these associations is the Cdc2 p34 cyclin B complex, which is required for the G2 to M phase transition. Activation of Cdc2 is controlled at several steps including cyclin binding and phosphorylation of threonine 161. However, the critical regulatory step in activating Cdc2 during progression into mitosis appears to be dephosphorylation of Tyr15 and Tyr14. Phosphorylation at Tyr15 and inhibition of Cdc2 is carried out by WEE1 and MIK protein kinases while Tyr15 dephosphorylation and activation of Cdc2 is carried out by the Cdc25 phosphatase. The isoform Cdc2deltaT is found in breast cancer tissues. Furthermore, Cdc2/Cdk1 is a key mediator of neuronal cell death in brain development and degeneration.
Cross-Reactivity	Human
Immunogen	Cdc2 antibody was raised in Mouse using a purified recombinant fragment of Cdc2 expressed in E Coli as the immunogen.
Preparation and Storage	Store at 4 degree C for short term storage. Store at -20 degree C for long term storage. Avoid repeated freeze/thaw cycles.

IMAGES



IF (Immunofluorescence)
Immunofluorescence analysis of HeLa cells using CDC2 antibody (green). Red: Actin filaments have been labeled with Alexa Fluor-555 phalloidin.



WB (Western Blot)
Western Blot showing CDC2 antibody used against Jurkat (1) cell lysate.

ADDITIONAL INFORMATION

Related Product Information for anti-Cdc2 antibody	Mouse monoclonal Cdc2 antibody
Product Categories/Family for anti-Cdc2 antibody	Cell Biology

NCBI AND UNIPROT INFORMATION

NCBI GI #	17136606
NCBI GeneID	34411
NCBI Accession #	NP_476797.1
NCBI GenBank Nucleotide #	NM_057449.3
UniProt Accession #	P23572; Q86FT5; Q86FT6; Q86FT7; Q86FT8; Q86FT9; Q9TX68; Q9TX69; Q9TX70; Q9TX71; Q9TX72; A0ANT1
Molecular Weight	34,439 Da
NCBI Official Full Name	cdc2
NCBI Official Symbol	cdc2
NCBI Official Synonym Symbols	5363; cdc; Cdc2; CDC2; cdc2Dm; CDCDm; Cdk-1; cdk1; Cdk1; CDK1; CDK1/CDC2; CG5363; Dcdc2; dCdk1; Dm cdc2; Dmcdc2; DmCdc2; DmCdk1; DmelCG5363; group 4; l(2)31Eh
NCBI Protein Information	CG5363 gene product from transcript CG5363-RA
UniProt Protein Name	Cyclin-dependent kinase 1
UniProt Gene Name	cdc2
UniProt Synonym Gene Names	cdk1; CDK1
UniProt Entry Name	CDK1_DROME

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.