# antibodies

# Datasheet for ABIN669891 anti-CDK1 antibody (AA 201-297)

3 Images

7 Publications



### Overview

Quantity:	100 µL
Target:	CDK1
Binding Specificity:	AA 201-297
Reactivity:	Human, Mouse, Rat, Dog, Sheep
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This CDK1 antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunohistochemistry (Paraffin-embedded Sections) (IHC (p)), Flow Cytometry (FACS), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p)), Immunohistochemistry (Frozen Sections) (IHC (fro))

## Product Details

Immunogen:	KLH conjugated synthetic peptide derived from mouse CDK1
Isotype:	lgG
Cross-Reactivity:	Dog, Human, Mouse, Rat, Sheep
Predicted Reactivity:	Cow
Purification:	Purified by Protein A.
Target Details	
Target:	CDK1

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN669891 | 03/06/2024 | Copyright antibodies-online. All rights reserved.

Target Details	
Alternative Name:	CDK1 (CDK1 Products)
Background:	Synonyms: Cdc2, Cdc2a, p34, Cyclin-dependent kinase 1, CDK1, Cell division control protein 2
	homolog, Cell division protein kinase 1, p34 protein kinase, Cdkn1
	Background: The cell division control protein cdc2, also known as cyclin dependent kinase 1
	(Cdk1) or p34/cdk1, 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.
Gene ID:	12534
UniProt:	P11440
Pathways:	Cell Division Cycle, Fc-epsilon Receptor Signaling Pathway, Neurotrophin Signaling Pathway,
	Activation of Innate immune Response, Mitotic G1-G1/S Phases, DNA Replication, M Phase,
	Toll-Like Receptors Cascades, Synthesis of DNA
Application Details	
Application Notes:	WB 1:300-5000
	ELISA 1:500-1000
	FCM 1:20-100
	IHC-P 1:200-400
	IHC-F 1:100-500
	IF(IHC-P) 1:50-200
	IF(IHC-F) 1:50-200
	IF(ICC) 1:50-200

Handling

Format:

Liquid

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 2/4 | Product datasheet for ABIN669891 | 03/06/2024 | Copyright antibodies-online. All rights reserved. Handling

Concentration:	1 μg/μL
Buffer:	0.01M TBS( pH 7.4) with 1 % BSA, 0.02 % Proclin300 and 50 % Glycerol.
Preservative:	ProClin
Precaution of Use:	This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Shipped at 4°C. Store at -20°C for one year. Avoid repeated freeze/thaw cycles.
Expiry Date:	12 months
Publications	

### Publications

Product cited in:

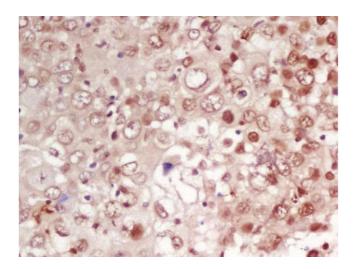
Ghate, Das, Chaudhuri, Panja, Mandal: "Sundew plant, a potential source of anti-inflammatory agents, selectively induces G2/M arrest and apoptosis in MCF-7 cells through upregulation of p53 and Bax/Bcl-2 ratio." in: **Cell death discovery**, Vol. 2, pp. 15062, (2016) (PubMed).

He, Zhang, Gan, Xu, Tang: "Expression of hyperpolarization-activated cyclic nucleotide-gated channel isoforms in a canine model of atrial fibrillation." in: **Experimental and therapeutic medicine**, Vol. 12, Issue 1, pp. 433-436, (2016) (PubMed).

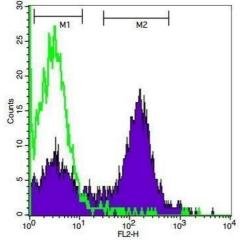
Dai, Ye, Peng, Zhou, Bai, Xiao, Ma, Zhou, Tang, Yao, Cao, Qin, Liu, Tan: "Aptamer TY04 inhibits the growth of multiple myeloma cells via cell cycle arrest." in: **Tumour biology**, Vol. 35, Issue 8, pp. 7561-8, (2014) (PubMed).

Haolong, Du, Hongchao, Yang, Wei, Hua, Wenliang, Lei, Po: "Enterovirus 71 VP1 activates calmodulin-dependent protein kinase II and results in the rearrangement of vimentin in human astrocyte cells." in: **PLoS ONE**, Vol. 8, Issue 9, pp. e73900, (2013) (PubMed).

There are more publications referencing this product on: Product page



# Or the second se



### Immunohistochemistry (Paraffin-embedded Sections)

**Image 1.** Formalin-fixed and paraffin embedded human laryngeal carcinoma labeled with Rabbit Anti-CDK1 Polyclonal Antibody, Unconjugated (ABIN669891) at 1:200 followed by conjugation to the secondary antibody and DAB staining

### Flow Cytometry

**Image 2.** MCF-7 cells probed with Rabbit Anti-CDK1 Polyclonal Antibody.

### **Flow Cytometry**

**Image 3.** Mouse spleen cells probed with Rabbit Anti-CDK1 Polyclonal Antibody, PE Conjugated at 1:50 for 30 minutes

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 4/4 | Product datasheet for ABIN669891 | 03/06/2024 | Copyright antibodies-online. All rights reserved.