CDC2 Antibody

Catalog No: #21236

Package Size: #21236-1 50ul #21236-2 100ul

Orders: order@signalwayantibody.com
Support: tech@signalwayantibody.com

Description

Product Name	CDC2 Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic peptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific peptide.
Applications	IF;WB;IHC;ELISA;
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of total CDC2 protein.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around aa. 13~17 (G-T-Y-G-V) derived from Human CDC2.
Conjugates	Unconjugated
Target Name	CDC2
Other Names	CDC28; CDC2A; CDK1; Cyclin-dependent kinase 1;
Accession No.	Swiss-Prot: P06493NCBI Protein: NP_001163877.1
Calculated MW	34kDa
SDS-PAGE MW	34kDa
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg2+ and Ca2+), pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Storage	Store at -20°C for long term preservation (recommended). Store at 4°C for short term use.

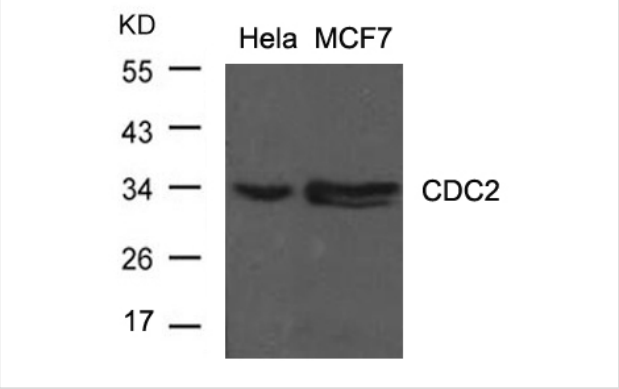
Application Details

WB 1:500-1:2000;

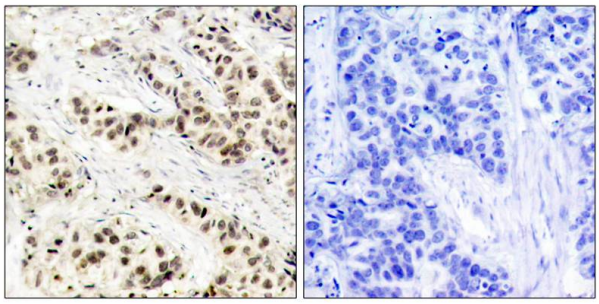
IHC 1:50-1:200;

IF 1:50-1:200; ELISA 1:2000

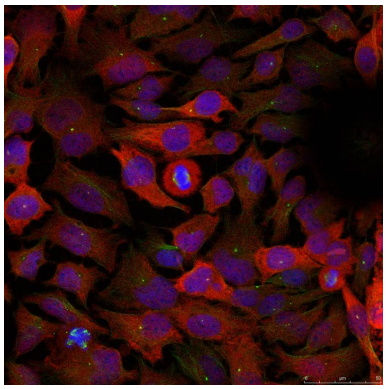
Images



Western blot analysis of extracts from Hela and MCF cells using CDC2(Ab-15) Antibody #21236.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CDC2(Ab-15) Antibody #21236(left) or the same antibody preincubated with blocking peptide(right).



Immunofluorescence staining of methanol-fixed Hela cells using CDC2(Ab-15) Antibody #21236.

Background

Plays a key role in the control of the eukaryotic cell cycle. It is required in higher cells for entry into S-phase and mitosis. p34 is a component of the kinase complex that phosphorylates the repetitive C-terminus of RNA polymerase II.
Y Gu, et al. (1992) EMBO J. 11(11): 3995

Published Papers

el at., SUMOylation-regulated protein phosphorylation, evidence from quantitative phosphoproteomics analyses.In J Biol Chem on 2011 Aug 5 by Qi Yao, Hui Li,et al..PMID:21685386, , (2011)

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el at., Human cells enter mitosis with damaged DNA after treatment with pharmacological concentrations of genotoxic agents. In Biochem J on 2012 Sep 15 by Philip M Kubara, Sophie Kernθ is-Golsteyn, et al..PMID: 22686412, , (2012)

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el at., Pro-Apoptotic Effects of JDA-202, a Novel Natural Diterpenoid, on Esophageal Cancer Through Targeting Peroxiredoxin I.In Antioxid Redox Signal on 2017 Jul 10 by Xiao-Jing Shi , Lina Ding,et al..PMID: 27650197, , (2017)

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el at., Cytotoxic amounts of cisplatin induce either checkpoint adaptation or apoptosis in a concentrationı ζ• ependent manner in cancer cells. In Biol Cell on 2016 May by Lucy H Swift, Roy M Golsteynı ε t al..PMID:26871414, , (2016)

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Layla Molina;David E. Williams;Raymond J. Andersen;Roy M. Golsteyn el at., Isolation of a natural product with anti-mitotic activity from a toxic Canadian prairie plant, , (2021)

PMID:34095597

el at., Sinularin induces oxidative stressı ζ• ediated G2/M arrest and apoptosis in oral cancer cells.In Environ Toxicol on 2017 Sep by Yung-Ting Chang , Chang-Yi Wu,et al..PMID:28548367, , (2017)

PMID:28548367

el at., Jaridonin-induced G2/M Phase Arrest in Human Esophageal Cancer Cells Is Caused by Reactive Oxygen Species-Dependent Cdc2-tyr15 Phosphorylation via ATM-Chk1/2-Cdc25C Pathway .In Toxicol Appl Pharmacol on 2015 Jan 15 by Yong-Cheng Ma , Nan Su et al..PMID:25450480, , (2015)

PMID:25450480

Note: This product is for in vitro research use only and is not intended for use in humans or animals.