

CDC2(Ab-15) Antibody

Catalog No: #21236

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

Description

Product Name	CDC2(Ab-15) 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	Hu Ms Rt
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
Concentration	1.0mg/ml
Formulation	Supplied at 1.0mg/mL in phosphate buffered saline (without Mg ²⁺ and Ca ²⁺), 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

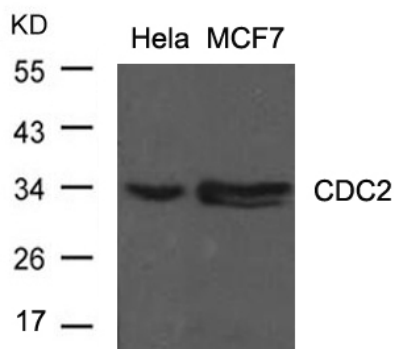
Predicted MW: 34kd

Western blotting: 1:500~1:1000

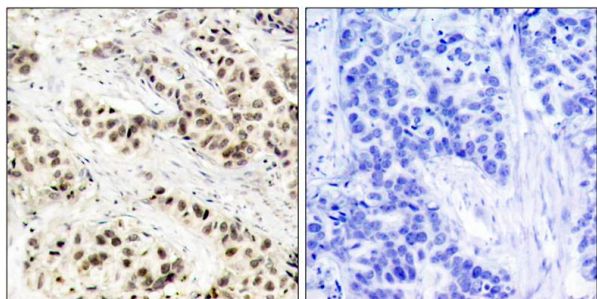
Immunohistochemistry: 1:50~1:100

Immunofluorescence: 1:100~1:200

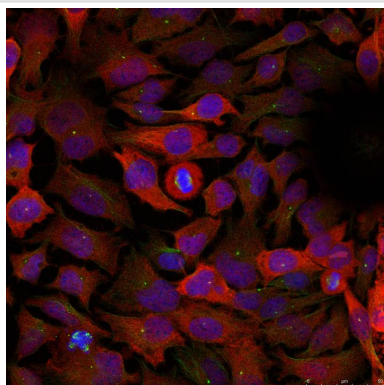
Images



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)

[PMID:21685386](#)

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 Kern, is-Golsteyn, et al.. PMID: 22686412, , (2012)

[PMID:22686412](#)

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)

[PMID:27650197](#)

el at., Cytotoxic amounts of cisplatin induce either checkpoint adaptation or apoptosis in a concentration- dependent manner in cancer cells. In Biol Cell on 2016 May by Lucy H Swift, Roy M Golsteyn, et al.. PMID:26871414, , (2016)

[PMID:26871414](#)

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](#)

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