Product Datasheet

CDC2(Phospho-Thr161) Antibody

Catalog No: #11134

Package Size: #11134-1 50ul #11134-2 100ul

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

Description

Product Name	CDC2(Phospho-Thr161) Antibody
Host Species	Rabbit
Clonality	Polyclonal
Purification	Antibodies were produced by immunizing rabbits with synthetic phosphopeptide and KLH conjugates. Antibodies were purified by affinity-chromatography using epitope-specific phosphopeptide. Non-phospho specific antibodies were removed by chromatogramphy using non-phosphopeptide.
Applications	WB IHC
Species Reactivity	Human;Mouse;Rat
Specificity	The antibody detects endogenous level of CDC2 only when phosphorylated at threonine 161.
Immunogen Type	Peptide-KLH
Immunogen Description	Peptide sequence around phosphorylation site of threonine161 (T-Y-T(p)-H-E) derived from Human CDC2.
Conjugates	Unconjugated
Target Name	CDC2
Modification	Phospho
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 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.

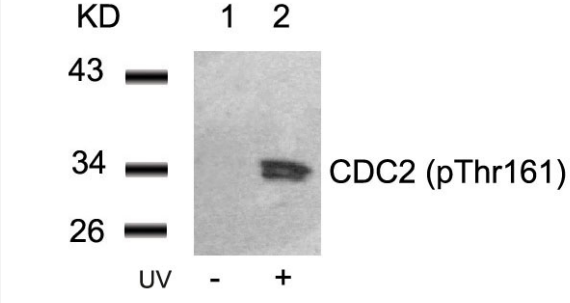
Application Details

Predicted MW: 34kd

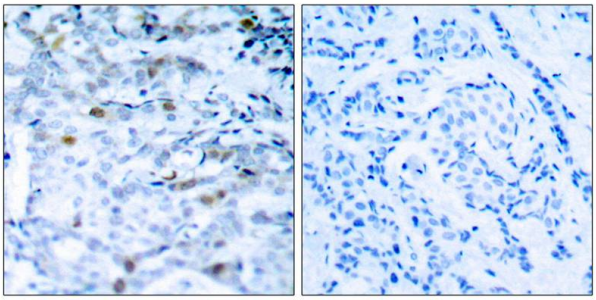
Western blotting: 1:500~1:1000

Immunohistochemistry: 1:50~1:100

Images



Western blot analysis of extracts from Hela cells untreated(lane 1) or treated with UV(lane 2) using CDC2(Phospho-Thr161) Antibody #11134.



Immunohistochemical analysis of paraffin-embedded human breast carcinoma tissue using CDC2(Phospho-Thr161) Antibody #11134(left) or the same antibody preincubated with blocking peptide(right).

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.

Ukomadu C, et al.(2003) J Biol Chem; 278(7): 4840-6.
Morris MC, et al.(2002)J Biol Chem; 277(26): 23847-53.
Brown NR, et al.(1999)J Biol Chem; 274(13): 8746-56.
Liu Y, et al.(2004)J Biol Chem; 279(6): 4507-14.

Published Papers

el at., Adaptive Gene Regulation of Pyruvate Dehydrogenase Kinase Isoenzyme 4 in Hepatotoxic Chemical-Induced Liver Injury and Its Stimulatory Potential for DNA Repair and Cell Proliferation.In J Recept Signal Transduct Res on 2011 Feb by Minori Dateki, Megumi Kunitomo,et al..PMID:21182459, , (2011)

PMID:21182459

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., Enhanced Proliferation of Bone Marrow Mesenchymal Stem Cells by Co-Culture With TM4 Mouse Sertoli Cells: Involvement of the EGF/PI3K/AKT Pathway .In Mol Cell Biochem on 2014 Aug byHuan Tian , Meijin Guo et al..PMID:24748323, , (2014)

PMID:24748323

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