

Product datasheet

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ARG58235 anti-CDK1 / CDC2 phospho (Thr14) antibody

Package: 50 μl Store at: -20°C

Summary

Product Description Rabbit Polyclonal antibody recognizes CDK1 / CDC2 phospho (Thr14)

Tested Reactivity Hu, Ms, Rat

Tested Application WB

Host Rabbit

Clonality Polyclonal

Isotype IgG

Target Name CDK1 / CDC2

Species Human

Immunogen Phospho specific peptide corresponding to residues surrounding Thr14 of Human CDK1.

Conjugation Un-conjugated

Alternate Names CDK1; Cyclin Dependent Kinase 1; CDC28A; CDC2; Cell Division Cycle 2, G1 To S And G2 To M; Cell

Division Control Protein 2 Homolog; Cell Division Protein Kinase 1; Cyclin-Dependent Kinase 1; P34

Protein Kinase; P34CDC2; Cell Cycle Controller CDC2; EC 2.7.11.22; EC 2.7.11.23; CDKN1

Application Instructions

Application table	Application	Dilution
	WB	1:500 - 1:1000
Application Note	* The dilutions indicate recommended starting dilutions and the optimal dilutions or concentrations should be determined by the scientist.	
Positive Control	HT-29	
Observed Size	34 kDa	

Properties

Form Liquid

Purification Affinity purified.

Buffer PBS (pH 7.3), 0.02% Sodium azide and 50% Glycerol.

Preservative 0.02% Sodium azide

Stabilizer 50% Glycerol

Storage instruction For continuous use, store undiluted antibody at 2-8°C for up to a week. For long-term storage, aliquot

and store at -20°C. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. The antibody solution should be gently mixed before use.

Note For laboratory research only, not for drug, diagnostic or other use.

Bioinformation

Gene Symbol CDK1

Gene Full Name Cyclin Dependent Kinase 1

Background The protein encoded by this gene is a member of the Ser/Thr protein kinase family. This protein is a

catalytic subunit of the highly conserved protein kinase complex known as M-phase promoting factor (MPF), which is essential for G2/M phase transitions of eukaryotic cell cycle. Mitotic cyclins stably associate with this protein and function as regulatory subunits. The kinase activity of this protein is controlled by cyclin accumulation and destruction through the cell cycle. The phosphorylation and dephosphorylation of this protein also play important regulatory roles in cell cycle control. Alternatively spliced transcript variants encoding different isoforms have been found for this gene. [provided by

RefSeq, May 2023]

Function Plays a key role in the control of the eukaryotic cell cycle by modulating the centrosome cycle as well as

mitotic onset; promotes G2-M transition via association with multiple interphase cyclins. [UniProt]

Research Area Cell Biology and Cellular Response antibody; Gene Regulation antibody; Neuroscience antibody

Calculated Mw 34 kDa

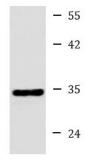
PTM Phosphorylation at Thr-14 and Tyr-15 by PKMYT1 prevents nuclear translocation.

Dephosphorylation by active CDC25A and CDC25B at Thr-14 and Tyr-15, leads to CDK1 activation at the

G2-M transition. [UniProt]

Cellular Localization Cytoplasm, Cytoskeleton, Mitochondrion, Nucleus. [UniProt]

Images



HT-29

ARG58235 anti-CDK1 / CDC2 phospho (Thr14) antibody WB image

Western blot: 25 μg of HT-29 cell lysate stained with ARG58235 anti-CDK1 / CDC2 phospho (Thr14) antibody at 1:1000 dilution.