

Phospho-CDC25A(S293) Antibody
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP3048a**Specification**

Phospho-CDC25A(S293) Antibody - Product Information

Application	WB, IHC-P,E
Primary Accession	P30304
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	59087

Phospho-CDC25A(S293) Antibody - Additional Information**Gene ID** 993**Other Names**

M-phase inducer phosphatase 1, Dual specificity phosphatase Cdc25A, CDC25A

Target/Specificity

This CDC25A Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S293 of human CDC25A.

Dilution

WB~~1:1000

IHC-P~~1:50~100

E~~Use at an assay dependent concentration.

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

Phospho-CDC25A(S293) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

Phospho-CDC25A(S293) Antibody - Protein Information**Name** CDC25A

Function Tyrosine protein phosphatase which functions as a dosage- dependent inducer of mitotic progression (PubMed:[12676925](#), PubMed:[14559997](#), PubMed:[1836978](#), PubMed:[20360007](#)).

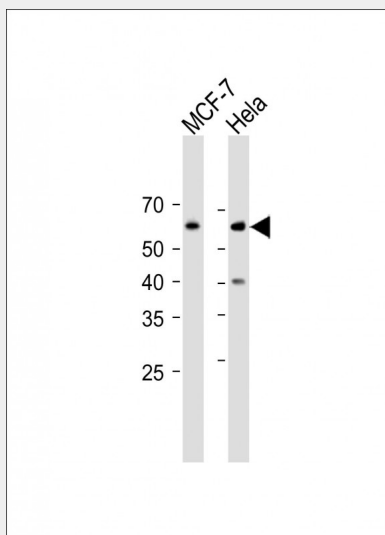
Directly dephosphorylates CDK1 and stimulates its kinase activity (PubMed:[20360007](#)). Also dephosphorylates CDK2 in complex with cyclin-E, in vitro (PubMed:[20360007](#)).

Phospho-CDC25A(S293) Antibody - Protocols

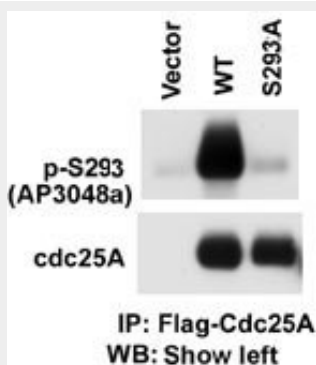
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Phospho-CDC25A(S293) Antibody - Images

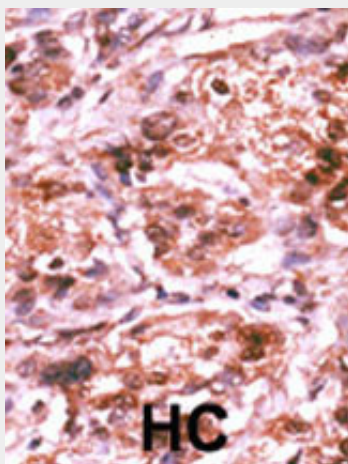


All lanes: Anti-Cdc25A Antibody (S292) at 1:1000 dilution Lane 1: MCF-7 whole cell lysate Lane 2: HeLa whole cell lysate Lysates/proteins at 20 µg per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 59KDa Blocking/Dilution buffer: 5% NFDM/TBST.



The anti-Phospho-CDC25A-S293 Pab (Cat. #AP3048a) is used in Western blot to detect Phospho-CDC25A-S293 in cells transfected with wild type or mutant S293A of CDC25A. Data

courtesy of Dr. Tiebang Kang of Washington University, St. Louis, MO.



Formalin-fixed and paraffin-embedded human cancer tissue reacted with the primary antibody, which was peroxidase-conjugated to the secondary antibody, followed by AEC staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated. BC = breast carcinoma; HC = hepatocarcinoma.

Phospho-CDC25A(S293) Antibody - Background

CDC25A is a member of the CDC25 family of phosphatases. CDC25A is required for progression from G1 to the S phase of the cell cycle. It activates the cyclin-dependent kinase CDC2 by removing two phosphate groups. CDC25A is specifically degraded in response to DNA damage, which prevents cells with chromosomal abnormalities from progressing through cell division. CDC25A is an oncogene, although its exact role in oncogenesis has not been demonstrated. Two transcript variants encoding different isoforms have been found for this gene.

Phospho-CDC25A(S293) Antibody - References

- Ito, Y., et al., Int. J. Mol. Med. 13(3):431-435 (2004).
- Nemoto, K., et al., Prostate 58(1):95-102 (2004).
- Goloudina, A., et al., Cell Cycle 2(5):473-478 (2003).
- Chen, M.S., et al., Mol. Cell. Biol. 23(21):7488-7497 (2003).
- Chow, J.P., et al., Mol. Biol. Cell 14(10):3989-4002 (2003).