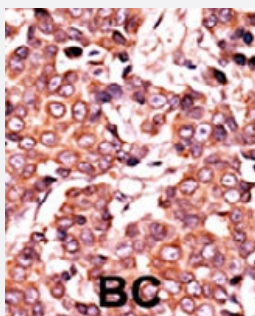


# CDC25A (phospho S278) polyclonal antibody

Catalog # PAB0427

Size 400 uL

## Applications



### Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with CDC25A (phospho S278) polyclonal antibody (Cat # PAB0427) 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.

## Specification

<b>Product Description</b>	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CDC25A.
<b>Immunogen</b>	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S278 of human CDC25A.
<b>Host</b>	Rabbit
<b>Reactivity</b>	Human
<b>Form</b>	Liquid
<b>Purification</b>	Protein G purification
<b>Recommend Usage</b>	Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
<b>Storage Buffer</b>	In PBS (0.09% sodium azide)
<b>Storage Instruction</b>	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
<b>Note</b>	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

## Applications

- Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections)

Formalin-fixed and paraffin-embedded human cancer tissue reacted with CDC25A (phospho S278) polyclonal antibody (Cat # PAB0427) 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.

## Gene Info — CDC25A

Entrez GeneID	<a href="#">993</a>
Protein Accession#	<a href="#">NP_001780:P30304</a>
Gene Name	CDC25A
Gene Alias	CDC25A2
Gene Description	cell division cycle 25 homolog A (S. pombe)
Omim ID	<a href="#">116947</a>
Gene Ontology	<a href="#">Hyperlink</a>
Gene Summary	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. [provided by RefSeq]
Other Designations	M-phase inducer phosphatase 1 cell division cycle 25A dual specificity phosphatase CDC25A

## Publication Reference

- [Cdc25A and cdc25B expression in malignant lymphoma of the thyroid: correlation with histological subtypes and cell proliferation.](#)

Ito Y, Yoshida H, Matsuzuka F, Matsuura N, Nakamura Y, Nakamine H, Kakudo K, Kuma K, Miyauchi A.

International Journal of Molecular Medicine 2004 Mar; 13(3):431.

- [Activation of the Raf-1/MEK/Erk kinase pathway by a novel Cdc25 inhibitor in human prostate cancer cells.](#)

Nemoto K, Vogt A, Oguri T, Lazo JS.

The Prostate 2004 Jan; 58(1):95.

- [Regulation of human Cdc25A stability by Serine 75 phosphorylation is not sufficient to activate a S phase checkpoint.](#)

Goloudina A, Yamaguchi H, Chervyakova DB, Appella E, Fornace AJ Jr, Bulavin DV.

Cell Cycle 2003 Sep; 2(5):473.

## Pathway

- [Cell cycle](#)

## Disease

- [Adenocarcinoma](#)
- [Breast Neoplasms](#)
- [Esophageal Neoplasms](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Ovarian Neoplasms](#)
- [Pulmonary Disease](#)
- [Schizophrenia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)