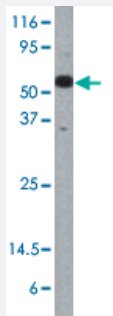


CDC25A (phospho S124) polyclonal antibody

Catalog # PAB0425

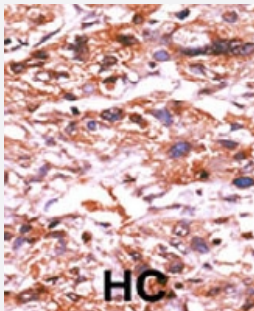
Size 400 uL

Applications



Western Blot (Tissue lysate)

The CDC25A (phospho S124) polyclonal antibody (Cat # PAB0425) is used in Western blot to detect CDC25A in mouse liver tissue lysate



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

Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with CDC25A (phospho S124) polyclonal antibody (Cat # PAB0425) 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. HC = hepatocarcinoma.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CDC25A.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S124 of human CDC25A.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein G purification

Recommend Usage	Western Blot (1:1000) Immunohistochemistry (1:50-100) The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS (0.09% sodium azide)
Storage Instruction	Store at 4°C. For long term storage store at -20°C. Aliquot to avoid repeated freezing and thawing.
Note	This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Applications

- Western Blot (Tissue lysate)

The CDC25A (phospho S124) polyclonal antibody (Cat # PAB0425) is used in Western blot to detect CDC25A in mouse liver tissue lysate

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Formalin-fixed and paraffin-embedded human hepatocellular carcinoma tissue reacted with CDC25A (phospho S124) polyclonal antibody (Cat # PAB0425) 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. HC = hepatocarcinoma.

Gene Info — CDC25A

Entrez GeneID	993
Protein Accession#	NP_001780:P30304
Gene Name	CDC25A
Gene Alias	CDC25A2
Gene Description	cell division cycle 25 homolog A (S. pombe)
Omim ID	116947
Gene Ontology	Hyperlink
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](#)