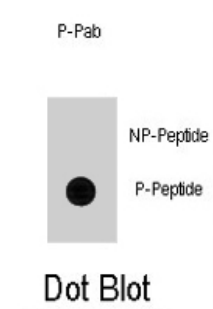
CDC25A (phospho S79) polyclonal antibody

Catalog # PAB1676 Size 400 uL

Applications



Dot Blot (Peptide)

Dot blot analysis of CDC25A (phospho S79) polyclonal antibody (Cat # PAB1676) on nitrocellulose membrane. 50 ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed.

Specification

Product Description	Rabbit polyclonal antibody raised against synthetic phosphopeptide of CDC25A.
Immunogen	Synthetic phosphopeptide (conjugated with KLH) corresponding to residues surrounding S79 of human CDC25A.
Host	Rabbit
Reactivity	Human
Form	Liquid
Purification	Protein A purification
Recommend Usage	Dot Blot (1:500) 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.

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Applications

- Dot Blot (Peptide)

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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 progressi on from G1 to the S phase of the cell cycle. It activates the cyclin-dependent kinase CDC2 by rem oving two phosphate groups. CDC25A is specifically degraded in response to DNA damage, whi ch prevents cells with chromosomal abnormalities from progressing through cell division. CDC25 A is an oncogene, although its exact role in oncogenesis has not been demonstrated. Two transcr ipt 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 phosphatase: a rate-limiting oncogene that determines genomic stability.

  Ray D, Kiyokawa H.

  Cancer Research 2008 Mar; 68(5):1251.

- CDC25A inhibition suppresses the growth and invasion of human hepatocellular carcinoma cells.

  Xu X, Yamamoto H, Liu G, Ito Y, Ngan CY, Kondo M, Nagano H, Dono K, Sekimoto M, Monden M.

  International Journal of Molecular Medicine 2008 Feb; 21(2):145.

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- GSK-3 beta targets Cdc25A for ubiquitin-mediated proteolysis, and GSK-3 beta inactivation correlates with Cdc25A overproduction in human cancers.

  Kang T, Wei Y, Honaker Y, Yamaguchi H, Appella E, Hung MC, Piwnica-Worms H.

  Cancer Cell 2008 Jan; 13(1):36.

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

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