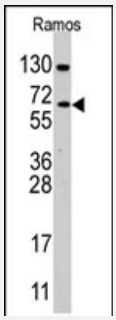
# CDC25B polyclonal antibody

Catalog # PAB2829 Size 400 uL

## Applications




### Western Blot (Cell lysate)

Western blot analysis of CDC25B polyclonal antibody (Cat # PAB2829) in Ramos cell line lysates (35 ug/lane). CDC25B (arrow) was detected using the purified polyclonal antibody.

## Specification

| | |
|---|---|
| **Product Description** | Rabbit polyclonal antibody raised against synthetic peptide of CDC25B. |
| **Immunogen** | A synthetic peptide (conjugated with KLH) corresponding to internal region of human CDC25B. |
| **Host** | Rabbit |
| **Reactivity** | Human |
| **Form** | Liquid |
| **Purification** | Protein G purification |
| **Recommend Usage** | Western Blot (1:1000)<br>Immunohistochemistry (1:10-50)<br>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.<br>Aliquot to avoid repeated freezing and thawing. |
| **Note** | This product contains sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which shoul d be handled by trained staff only. |

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## Applications

- Immunohistochemistry

- Western Blot (Cell lysate)

  Western blot analysis of CDC25B polyclonal antibody (Cat # PAB2829) in Ramos cell line lysates (35 ug/lane). CDC25B (arrow) was detected using the purified polyclonal antibody.

## Gene Info — CDC25B

| | |
|---|---|
| **Entrez GeneID** | 994 |
| **Protein Accession#** | NP_068660;P30305 |
| **Gene Name** | CDC25B |
| **Gene Alias** | - |
| **Gene Description** | cell division cycle 25 homolog B (S. pombe) |
| **Omim ID** | 116949 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | CDC25B is a member of the CDC25 family of phosphatases. CDC25B activates the cyclin dependent kinase CDC2 by removing two phosphate groups and it is required for entry into mitosis. CDC25B shuttles between the nucleus and the cytoplasm due to nuclear localization and nuclear export signals. The protein is nuclear in the M and G1 phases of the cell cycle and moves to the cytoplasm during S and G2. CDC25B has oncogenic properties, although its role in tumor formation has not been determined. Multiple transcript variants for this gene exist. [provided by RefSeq |
| **Other Designations** | OTTHUMP00000030137\|OTTHUMP00000030138\|OTTHUMP00000030139\|cell division cycle 25B |

## Publication Reference

- Nuclear export signal in CDC25B.

  Uchida S, Ohtsubo M, Shimura M, Hirata M, Nakagama H, Matsunaga T, Yoshida M, Ishizaka Y, Yamashita K.

  Biochemical and Biophysical Research Communications 2004 Mar; 316(1):226.

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- 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.

- Coordinate expression of Cdc25B and ER-alpha is frequent in low-grade endometrioid endometrial carcinoma but uncommon in high-grade endometrioid and nonendometrioid carcinomas.

  Wu W, Slomovitz BM, Celestino J, Chung L, Thornton A, Lu KH.

  Cancer Research 2003 Oct; 63(19):6195.

## Pathway

- Cell cycle
- MAPK signaling pathway

## Disease

- Bipolar Disorder
- Genetic Predisposition to Disease
- Lung Neoplasms
- Ovarian Neoplasms
- Pulmonary Disease
- Urinary Bladder Neoplasms
- Werner syndrome

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