

## **Cdc25B Polyclonal Antibody**

Catalog No: YT0799

**Reactivity:** Human; Mouse; Rat

**Applications:** WB;IF;ELISA

Target: Cdc25B

**Fields:** >>MAPK signaling pathway;>>Cell cycle;>>Progesterone-mediated oocyte

maturation;>>MicroRNAs in cancer

Gene Name: CDC25B

**Protein Name:** M-phase inducer phosphatase 2

P30305

P30306

Human Gene Id: 994

**Human Swiss Prot** 

No:

Mouse Gene ld: 12531

**Mouse Swiss Prot** 

No:

**Rat Gene Id:** 171103

Rat Swiss Prot No: P48966

**Immunogen :** The antiserum was produced against synthesized peptide derived from human

CDC25B. AA range:289-338

**Specificity:** Cdc25B Polyclonal Antibody detects endogenous levels of Cdc25B protein.

**Formulation :** Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.

Source: Polyclonal, Rabbit, IgG

**Dilution:** WB 1:500 - 1:2000. IF 1:200 - 1:1000. ELISA: 1:20000. Not yet tested in other

applications.



**Purification:** The antibody was affinity-purified from rabbit antiserum by affinity-

chromatography using epitope-specific immunogen.

**Concentration**: 1 mg/ml

**Storage Stability:** -15°C to -25°C/1 year(Do not lower than -25°C)

Observed Band: 65kD

Cell Pathway: MAPK\_ERK\_Growth;MAPK\_G\_Protein;Cell\_Cycle\_G1S;Cell\_Cycle\_G2M\_DN

A;Progesterone-mediated oocyte maturation;

**Background:** cell division cycle 25B(CDC25B) Homo sapiens 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,

Jul 20081.

**Function:** catalytic activity:Protein tyrosine phosphate + H(2)O = protein tyrosine +

phosphate.,enzyme regulation:Stimulated by B-type cyclins.,function:Tyrosine protein phosphatase which functions as a dosage-dependent inducer of mitotic progression. Directly dephosphorylates CDC2 and stimulates its kinase activity. The three isoforms seem to have a different level of activity.,PTM:Phosphorylated by BRSK1 in vitro. Phosphorylated by CHEK1, which inhibits the activity of this protein.,similarity:Belongs to the MPI phosphatase family.,similarity:Contains 1

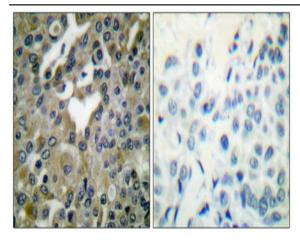
rhodanese domain.,

**Subcellular** Cytoplasm, cytoskeleton, microtubule organizing center, centrosome .

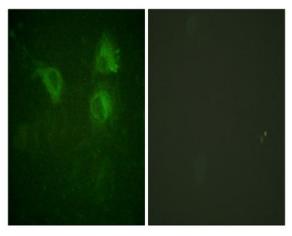
**Location:** Cytoplasm, cytoskeleton, spindle pole.

**Expression :** Brain, Rectum tumor,

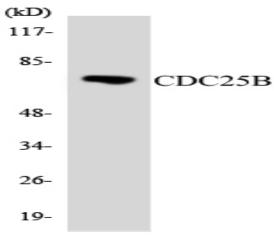
## **Products Images**



Immunohistochemical analysis of paraffin-embedded Human breast cancer. Antibody was diluted at 1:100(4° overnight). High-pressure and temperature Tris-EDTA,pH8.0 was used for antigen retrieval. Negetive contrl (right) obtaned from antibody was preabsorbed by immunogen peptide.



Immunofluorescence analysis of HUVEC cells, using CDC25B Antibody. The picture on the right is blocked with the synthesized peptide.



Western blot analysis of the lysates from HeLa cells using CDC25B antibody.