



Rabbit Anti-phospho-Cdc25B

SL5245R-FITC

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| Product Name: | Anti-phospho-Cdc25B (Ser353)/FITC |
| Chinese Name: | FITC标记的磷酸化细胞分裂周期蛋白25B抗体 |
| Alias: | Cdc25B (Phospho-Ser353); Cdc25B (Phospho-S353); p-Cdc25B (Ser353); p-Cdc25B (S149); Cdc 25B; Cdc25b; Cdc-25b; CDC25HU2; Cdc25m2; Cell division cycle 25 homolog B; Cell division cycle 25B; Cell division cycle 25B isoform 1; Cell division cycle 25B isoform 2; Cell division cycle 25B isoform 3; Cell division cycle 25B isoform 4; Cell division cycle 25B isoform 5; Dual specificity phosphatase Cdc25B; M phase inducer phosphatase 2; M-phase inducer phosphatase 2; MPIP2 HUMAN. |
| Organism Species: | Rabbit |
| Clonality: | Polyclonal |
| React Species: | Human,Mouse,Rat, |
| Applications: | IF=1:50-200 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user. |
| Molecular weight: | 65kDa |
| Form: | Lyophilized or Liquid |
| Concentration: | 1mg/ml |
| immunogen: | KLH conjugated Synthesised phosphopeptide derived from human Cdc25B around the phosphorylation site of Ser353 |
| Lsotype: | IgG |
| Purification: | affinity purified by Protein A |
| Storage Buffer: | 0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol. |
| Storage: | Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C. |
| Product Detail: | background: 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 2008].

Function:

Tyrosine protein phosphatase which functions as a dosage-dependent inducer of mitotic progression. Required for G2/M phases of the cell cycle progression and abscission during cytokinesis in a ECT2-dependent manner. Directly dephosphorylates CDK1 and stimulates its kinase activity. The three isoforms seem to have a different level of activity.

Subunit:

Interacts with MAPK14 and 14-3-3 proteins.

Subcellular Location:

Cytoplasm, cytoskeleton, centrosome. Cytoplasm, cytoskeleton, spindle pole.

Post-translational modifications:

Phosphorylated by BRSK1 in vitro. Phosphorylated by CHEK1, which inhibits the activity of this protein. Phosphorylation at Ser-353 by AURKA might locally participate in the control of the onset of mitosis. Phosphorylation by MELK at Ser-169 promotes localization to the centrosome and the spindle poles during mitosis. Phosphorylation at Ser-323 and Ser-375 by MAPK14 is required for binding to 14-3-3 proteins.

Similarity:

Belongs to the MPI phosphatase family.
Contains 1 rhodanese domain.

Database links:

[Entrez Gene: 994](#)Human

[Entrez Gene: 12531](#)Mouse

[Entrez Gene: 171103](#)Rat

[Oimim: 116949](#)Human

[SwissProt: P30305](#)Human

[SwissProt: P30306](#)Mouse

[SwissProt: P48966](#)Rat

[Unigene: 153752](#)Human

[Unigene: 38444](#)Mouse

[Unigene: 11312](#)Rat

Important Note:

This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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