



Cdc25B Monoclonal Antibody

Catalog No	YP-mAb-16680
Isotype	IgG
Reactivity	Human;Mouse;Rat
Applications	WB
Gene Name	CDC25B
Immunogen	The antiserum was produced against synthesized peptide derived from human CDC25B. AA range:289-338
Specificity	Cdc25B Monoclonal Antibody detects endogenous levels of Cdc25B protein.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Source	Monoclonal, Mouse,IgG
Purification	The antibody was affinity-purified from mouse antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-1:2000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	M-phase inducer phosphatase 2;M phase inducer phosphatase 2;EC:3.1.3.48; Cell division cycle 25 homolog B;CDC25HU2;Cdc25B;Dual specificity phosphatase Cdc25B
Observed Band	65kD
Calculated Molecular Weight	65kD
Cell Pathway	Cytoplasm, cytoskeleton, microtubule organizing center, centrosome . Cytoplasm, cytoskeleton, spindle pole .
Tissue Specificity	Brain,Rectum tumor,
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.,



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 2008],

matters needing attention

Avoid repeated freezing and thawing!

Usage suggestions

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

Products Images

Western Blot analysis of various cells using Cdc25B Monoclonal Antibody

