

Cdc25B Polyclonal Antibody | anti-CDC25B antibody

Anti-Cdc25B Antibody

CATALOG # AAA46406	REACTIVITY Mouse, Rat Predicted to work with: Human	APPLICATIONS Immunohistochemistry, Western Blot
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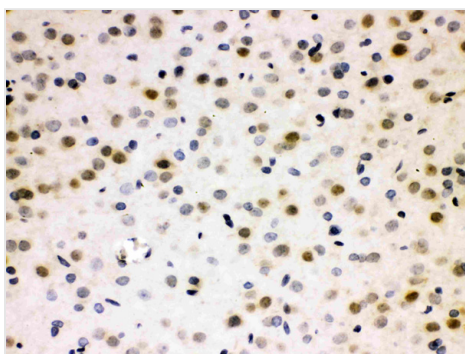
PRODUCT SYNONYMS

Cdc25B; Polyclonal Antibody; Anti-Cdc25B Antibody; M-phase inducer phosphatase 2; A1604853; Cdc 25B; Cdc25b; CDC25B1; CDC25B2; CDC25B3; 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; Dual specificity phosphatase Cdc25B; EC 3.1.3.48; M phase inducer phosphatase 2; MPIP2_HUMAN; cell division cycle 25 homolog B (S. pombe); anti-CDC25B antibody

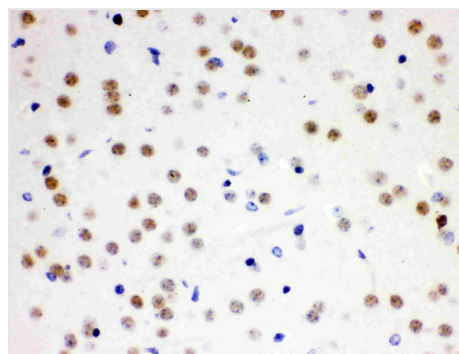
PRODUCT SPECIFICATIONS

Reactivity	Mouse, Rat Predicted to work with: Human
Clonality	Polyclonal
Purity/Purification	Immunogen Affinity Purified
Form/Format	Lyophilized. Each vial contains 5mg BSA, 0.9mg NaCl, 0.2mg Na2HPO4, 0.05mg NaN3.
Sequence Length	468
Applicable Applications for anti-CDC25B antibody	IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E Coli-derived human Cdc25B recombinant protein (Position: M119-L248). Human Cdc25B shares 71% and 68.2% amino acid (aa) sequence identity with mouse and rat Cdc25B, respectively.
Ig Type	Rabbit IgG
Reconstitution	Add 0.2ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year. After reconstitution, at 4 degree C for one month. It can also be aliquoted and stored frozen at -20 degree C for a longer time. Avoid repeated freezing and thawing.

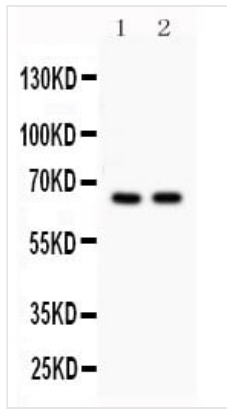
IMAGES



IHC (Immunohistochemistry)
Anti- Cdc25B Picoband antibody, AAA46406, IHC(P)IHC(P): Rat Brain Tissue



IHC (Immunohistochemistry)
Anti- Cdc25B Picoband antibody, AAA46406, IHC(P)IHC(P): Mouse Brain Tissue



WB (Western Blot)

Anti- Cdc25B Picoband antibody, AAA46406, Western blottingAll lanes: Anti Cdc25B (AAA46406) at 0.5ug/mlLane 1: Rat Liver Tissue Lysate at 50ugLane 2: Rat Testis Tissue Lysate at 50ugPredicted bind size: 65KDObserved bind size: 65KD

ADDITIONAL INFORMATION

Related Product Information for anti-CDC25B antibody	Description: Rabbit IgG polyclonal antibody for M-phase inducer phosphatase 2(CDC25B) detection. Tested with WB, IHC-P in Human;Mouse;Rat. Background: Central to the onset of mitosis in all eukaryotic cells is the CDC2 protein kinase, the activity of which is negatively regulated by phosphorylation and positively activated by dephosphorylation. The latter function is carried out by a specific phosphatase, CDC25. At least 3 human CDC25 genes code for the A, B, and C forms of CDC25. CDC25B is mapped to 20p13. P38 kinase has a critical role in the initiation of a G2 delay after ultraviolet radiation. Inhibition of p38 blocks the rapid initiation of this checkpoint in both human and murine cells after ultraviolet radiation. In vitro, p38 binds and phosphorylates CDC25B at serines 309 and 361, and CDC25C at serine-216; phosphorylation of these residues is required for binding to 14-3-3 proteins. In vivo, inhibition of p38 prevents both phosphorylation of CDC25B at serine-309 and 14-3-3 binding after ultraviolet radiation, and mutation of this site is sufficient to inhibit the checkpoint initiation. Regulation of CDC25B phosphorylation by p38 is a critical event for initiating the G2/M checkpoint after ultraviolet radiation.
References	1. Bulavin, D. V., Higashimoto, Y., Popoff, I. J., Gaarde, W. A., Basrur, V., Potapova, O., Appella, E., Fornace, A. J., Jr.Initiation of a G2/M checkpoint after ultraviolet radiation requires p38 kinase.Nature 411: 102-107, 2001. 2. Lane, S. A., Baker, E., Sutherland, G. R., Tonks, I., Hayward, N., Ellem, K.The human cell cycle gene CDC25B is located at 20p13.Genomics 15: 693-694, 1993.

NCBI AND UNIPROT INFORMATION

NCBI GI #	566559982
NCBI GeneID	994
NCBI Accession #	NP_001274448.1
NCBI GenBank Nucleotide #	NM_001287519.1
UniProt Accession #	P30305 ; O43551 ; Q13971 ; Q5JX77 ; Q6RSS1 ; Q9BRA6 ; D3DVY1 ; D3DVY2 ; D3DVY3 ; D3DVY4
Molecular Weight	67,241 Da
NCBI Official Full Name	M-phase inducer phosphatase 2 isoform 7
NCBI Official Synonym Full Names	cell division cycle 25B
NCBI Official Symbol	CDC25B
NCBI Protein Information	M-phase inducer phosphatase 2
UniProt Protein Name	M-phase inducer phosphatase 2
UniProt Gene Name	CDC25B

UniProt Synonym Gene Names	CDC25HU2
UniProt Entry Name	MPIP2_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/polyclonal/cdc25b-antibody-immunohistochemistry-western-blot-elisa/46406>