Store at -200

## cdc25B Antibody



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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	<b>MW (kDa):</b> 62	Source: Rabbit	UniProt ID: #P30305	Entrez-Gene Id: 994
Product Usage	Ap	plication		Dilution		
Information	We	estern Blotting			1:1000	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 $\mu$ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity / Sensitivity		cdc25B Antibody recognizes endogenous levels of total cdc25B protein.				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues at the carboxy terminus of human cdc25B. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		Cdc25 is a protein phosphatase responsible for dephosphorylating and activating cdc2, a crucial step in regulating the entry of all eukaryotic cells into mitosis (1). cdc25C is constitutively phosphorylated at Ser216 throughout interphase by c-TAK1, while phosphorylation at this site is DNA damage-dependent at the G2/M checkpoint (2). When phosphorylated at Ser216, cdc25C binds to members of the 14-3-3 family of proteins, sequestering cdc25C in the cytoplasm and thereby preventing premature mitosis (3). The checkpoint kinases Chk1 and Chk2 phosphorylate cdc25C at Ser216 in response to DNA damage (4,5). The major 14-3-3 binding sites of cdc25B are Ser309 and Ser361, both of which can be phosphorylated by p38 in response to ultraviolet radiation (6).				
Background Ref	2. P 3. K 4. B 5. F	<ol> <li>Jessus, C. and Ozon, R. (1995) Prog. Cell Cycle Res. 1, 215-228.</li> <li>Peng, C.Y. et al. (1997) Science 277, 1501-1505.</li> <li>Kumagai, A. and Dunphy, W.G. (1999) Genes Dev. 13, 1067-1072.</li> <li>Blasina, A. et al. (1999) Curr. Biol. 9, 1-10.</li> <li>Furnari, B. et al. (1999) Mol. Biol. Cell 10, 833-845.</li> <li>Bulavin, D.V. et al. (2001) Nature 411, 102-7.</li> </ol>				

**Species Reactivity** 

Species reactivity is determined by testing in at least one approved application (e.g., western blot).

Western Blot Buffer

IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.

**Applications Key** 

**WB:** Western Blotting

**Cross-Reactivity Key** 

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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