Store at -200

Phospho-CDK2 (Thr160) Antibody



Orders: 877-616-CELL (2355)

orders@cellsignal.com

877-678-TECH (8324) Support:

Web: info@cellsignal.com

cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

Applications: WB, IP	Reactivity: H M R	Sensitivity: Endogenous	MW (kDa): 33	Source: Rabbit	UniProt ID: #P24941	Entrez-Gene Id: 1017	
Product Usage Information	Ар	Application			Dilution		
	We	Western Blotting			1:1000		
	Imr	Immunoprecipitation			1:50		
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at $-$ 20°C. Do not aliquot the antibody.					
Specificity / Sensi	thre	Phospho-CDK2 (Thr160) Antibody detects endogenous levels of CDK2 only when phosphorylated at hreonine 160. The antibody weakly cross-reacts with cdc2 phosphorylated at Thr161. It does not cross-eact with other phosphorylated cyclin dependent kinases.					
Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide correspond to residues surrounding Thr160 of human CDK2. Antibodies are purified by protein A and peptide after the chromatography.							
Background	p34 and com com	Cyclin-dependent kinase 2 (p33CDK2) is an important component of the cell cycle machinery. Like p34cdc2, kinase activity is regulated by phosphorylation state as well as association with a cyclin subunit and a CDK inhibitor. Inhibitory phosphorylation occurs on Thr14 and Tyr15 (1). Inhibition of CDK2-cyclin complexes can also be attributed to association with p27 Kip1 and p21 Waf1/Cip1 (2). Activation of CDK2 complexes requires dephosphorylation of Thr14 and Tyr15 by cdc25 phosphatase and phosphorylation of Thr160 (3), which is mediated by CAK, a complex of CDK7 and cyclin H (4). CDK2/cyclin E kinase activity					

Background References 1. Morgan, D.O. (1995) Nature 374, 131-4.

2. Poon, R.Y. et al. (1996) J Biol Chem 271, 13283-91.

3. Gu, Y. et al. (1992) EMBO J 11, 3995-4005.

the nucleus throughout G2 (5).

4. Fesquet, D. et al. (1993) EMBO J 12, 3111-21.

5. Morgan, D.O. (1997) Annu Rev Cell Dev Biol 13, 261-91.

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 IP: Immunoprecipitation

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

is important for the G1 to S transition and phosphorylation of the Rb protein. During S-phase, active CDK2/cyclin A complexes predominate and phosphorylate E2F and the active CDK2 complex persists in

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

Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Trademarks and

Patents All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more

information.

Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the **Limited Uses**

following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in

writing by a legally authorized representative of CST, are rejected and are of no force or effect.

Phospho-CDK2 (Thr160) Antibody (#2561) Datasheet Without Images Cell Signaling Technology

Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products or services that would compete with CST products or services, (c) not alter or remove from the Products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.