Revision 1

Phospho-Pin1 (Ser16) Antibody

#3721 Store at -20C

Cell Signaling TECHNOLOGY®

Orders: 877-616-CELL (2355)
orders@cellsignal.com

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Web: info@cellsignal.com
cellsignal.com

3 Trask Lane | Danvers | Massachusetts | 01923 | USA

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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source/Isotype:	UniProt ID:	Entrez-Gene Id:
W	R	Endogenous	18	Rabbit	#Q13526	5300

Product Usage Information

Application	Dilution
Western Blotting	1:1000

Storage

Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 µg/ml BSA and 50% glycerol. Store at –20°C. Do not aliquot the antibody.

Specificity/Sensitivity

Phospho-Pin1 (Ser16) Antibody detects endogenous levels of Pin1 only when phosphorylated at serine 16.

Species predicted to react based on 100% sequence homology

Human, Mouse, Xenopus

Source / Purification

Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser16 of human Pin1. Antibodies are purified by protein A and peptide affinity chromatography.

Background

Pin1, a member of the parvulin family of peptidyl-prolyl isomerases (PPIase), has been implicated in the G2/M transition of the mammalian cell cycle (1-6). Pin1 is a small (18 kDa) protein with two distinct functional domains: an amino-terminal WW domain and a carboxy-terminal PPIase domain. Pin1 interacts with several mitotic phosphoproteins, including Plk1, cdc25C and cdc27, and is thought to act as a phosphorylation-dependent PPIase for these target molecules (7-9).
Phosphorylation of pin1 at Ser16 affects its subcellular localization and the ability of its WW domain to interact with potential targets (10).

Background References

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2. Verdecia, M. A. et al. (2000) *Nat. Struct. Biol.* 7, 639-643.
3. Lu, K. P. et al. (1996) *Nature* 380, 544-547.
4. Zhou, X. Z. et al. (2000) *Mol. Cell* 6, 873-883.
5. Wu, X. et al. (2000) *EMBO J.* 19, 3727-3738.
6. Winkler, K. E. et al. (2000) *Science* 287, 1644-1647.
7. Crenshaw, D. G. et al. (1998) *EMBO J.* 17, 1315-1327.
8. Shen, M. et al. (1998) *Genes Dev.* 12, 706-720.
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10. Lu, P. J. et al. (2002) *J Biol Chem* 277, 2381-2384.

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

W: Western Blotting

Cross-Reactivity Key

R: Rat

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Limited Uses

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