4210 Store at -20C

Phospho-RCC1 (Ser11) Antibody



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

Applications: WB	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 45	Source: Rabbit	UniProt ID: #P18754	Entrez-Gene Id 1104	
Product Usage Information		plication estern Blotting			Dilution 1:1000		
Storage	Sup	o o	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	5), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at –			
Specificity / Sensitivity		Phospho-RCC1 (Ser11) Antibody recognizes endogenous levels of RCC1 protein only when phosphorylated at Ser11.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic phosphopeptide corresponding to residues surrounding Ser11 of human RCC1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	spin inac of g GTF chrc (4,5 (5,6 regu cycl	The Ras family small GTPase Ran is involved in nuclear envelope formation, assembly of the mitotic spindle, and nuclear transport (1,2). Like other small GTPases, Ran is active in its GTP-bound form and inactive in its GDP-bound form. Nuclear RanGTP concentration is maintained through nuclear localization of guanine nucleotide exchange factor (GEF) activity, which catalyzes the exchange of bound GDP for GTP. Regulator of chromatin condensation 1 (RCC1) is the only known RanGEF (3). RCC1 is dynamically chromatin-bound throughout the cell cycle, and this localization is required for mitosis to proceed normally (4,5). Appropriate association of RCC1 with chromatin is regulated through amino-terminal phosphorylation (5,6) and methylation (7). RCC1 regulation of RanGTP levels in response to histone modifications regulates nuclear import during apoptosis (8). In mitosis RCC1 is phosphorylated at Ser11, possibly by cyclin B/cdc2 (9-11). This phosphorylation may play a role in RCC1 interaction with chromatin and RCC1 RanGEF activity (6).					
		 Quimby, B.B. and Dasso, M. (2003) <i>Curr Opin Cell Biol</i> 15, 338-44. Hetzer, M. et al. (2002) <i>Nat Cell Biol</i> 4, E177-84. Moore, W. et al. (2002) <i>Curr Biol</i> 12, 1442-7. Ohtsubo, M. et al. (1989) <i>J Cell Biol</i> 109, 1389-97. Li, H.Y. and Zheng, Y. (2004) <i>Genes Dev</i> 18, 512-27. Hutchins, J.R. et al. (2004) <i>Curr Biol</i> 14, 1099-104. Chen, T. et al. (2007) <i>Nat Cell Biol</i> 9, 596-603. Wong, C.H. et al. (2009) <i>Nat Cell Biol</i> 11, 36-45. Horiike, Y. et al. (2009) <i>Mol Biol Rep</i> 36, 717-23. Dephoure, N. et al. (2008) <i>Proc Natl Acad Sci U S A</i> 105, 10762-7. Hood, F.E. and Clarke, P.R. (2007) <i>J Cell Sci</i> 120, 3436-45. 					

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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Trademarks and Patents

Limited Uses

Phospho-RCC1 (Ser11) Antibody (#4210) Datasheet Without Images Cell Signaling Technology

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