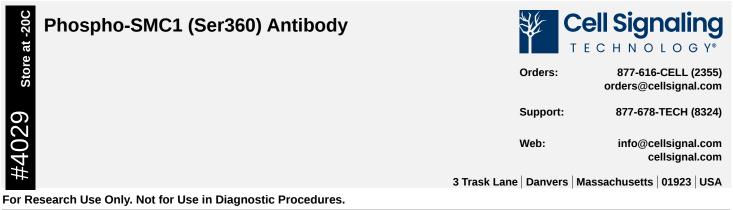
1/1/24, 3:30 PM Revision 1



Applications: Reactive WB, IF-IC H M		MW (kDa): 145	Source: Rabbit	UniProt ID: #Q14683	Entrez-Gene Id: 8243
Product Usage Information	Application Western Blotting Immunofluorescence (Immunocytochemis	stry)		Dilution 1:1000 1:50
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-SMC1 (Ser360) Antibody detects endogenous levels of SMC1 protein only when phosphorylated on Ser360. This antibody does not cross-react with other SMC proteins.				
Species predicted to react based on 100% sequence homology:	Monkey, Chicken, Xeno	pus, Bovine, S. cer	revisiae		
Source / Purification	Polyclonal antibodies an to Ser360 of the human chromatography.		•	, , , ,	
Background	Structural maintenance cohesin complex that er dependent phosphoryla part of the intra-S-phase subjected to other forms phosphorylation of SMC mechanism is not well u interaction (3). The serine residue at 36 DNA damage (5,6). Pho Signaling Technology (C discovery. Phosphorylat shown to be induced by knowledgebase, at www	nables sister chrom tion of SMC1 occur e DNA damage che s of DNA damage, i C1 is required for ac understood and may 60 of SMC1 is phos pspho-SMC1 (Ser36 CST) using Phosphi tion at Ser360 was y UV treatment. Plea	aatid cohesion and p rs at Ser957 and Se eckpoint (3). SMC1 p including UV light an ctivation of the IR-in- y involve a conform sphorylated in an AT 60) Antibody is direc oScan [®] , CST's LC- discovered using an ase visit PhosphoSi	blays a role in DNA repa er966 in response to ioni ohosphorylation is ATM- nd hydroxyurea treatme duced intra-S-phase che ational change that affer TM/ATR-dependent man cted at a site that was id MS/MS platform for moo n ATM/ATR substrate ar tePlus [®] , CST's modifica	ir (1,2). ATM/NBS1- izing radiation (IR) as independent in cells nt (4). While eckpoint, the precise cts SMC1-SMC3 ner in response to lentified at Cell dification site ntibody and was
Background References	 Michaelis, C. et al. (1 Sjögren, C. and Nasr Yazdi, P.T. et al. (200 Kim, S.T. et al. (2002) Stokes, M.P. et al. (2 Matsuoka, S. et al. (2 	nyth, K. (2001) Cur 2) Genes Dev 16, 5) Genes Dev 16, 56 007) Proc Natl Acad	r Biol 11, 991-5. 571-82. 50-70. d Sci U S A 104, 195	855-60.	
Species Reactivity	Species reactivity is dete	ermined by testing in	n at least one appro	oved application (e.g., w	estern blot).
Western Blot Buffer	IMPORTANT: For wester 0.1% Tween® 20 at 4°C			ed primary antibody in 5	% w/v BSA, 1X TBS,
Applications Key	WB: Western Blotting IF	IC: Immunofluore	scence (Immunocyt	ochemistry)	

Cross-Reactivity Key

1/1/24, 3:30 PM	 Phospho-SMC1 (Ser360) Antibody (#4029) Datasheet Without Images Cell Signaling Technology 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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