e at -20C	Phospho-ATR (Ser428) Antibody	T C	Cell Signaling	
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com	
53		Support:	877-678-TECH (8324)	
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#		3 Trask Lane Danvers	Massachusetts 01923 USA	

For Research Use Onl	v Not for Use in	Diagnostic Procedures.
	y, NOUTOF OSC III	Diagnostici roccuares.

Applications: WB	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 300	Source: Rabbit	UniProt ID: #Q13535	Entrez-Gene Id: 545	
Product Usage Information	-	oplication estern Blotting			Dilution 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-ATR (Ser428) Antibody detects endogenous levels of ATR only when phosphorylated at serine 428.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Ser428 of human ATR. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	PI3 thre Des acti sigu Pho me ATM	kinase-related kinas conine residues that spite the essential ro ivation. ATR was long naling occurring via r osphorylation of ATR ans of activating ATF	se (PIKK) family me are followed by a g le of ATR in cell cyu g thought to exist ir recruitment of ATR at serine 428 in re R (4,5). Recent wor rylation of ATR Thr	embers that phosph- lutamine in respons cle signaling and DM a constitutively act to single stranded D sponse to UV-induc k has shown autoph 1989 occurs in resp	ectasia and Rad3-relate orylate multiple substrate se to DNA damage or rep VA repair processes, little ive state in cells, with DI DNA and sites of replicati ed DNA damage has be nosphorylation of ATR at onse to DNA damage, ir aling (6,7).	es on serine or blication blocks (1-3). e is known about its NA damage-induced on stress. en suggested as a threonine 1989. Like	
Background References		 Kastan, M.B. and Lim, D.S. (2000) Nat Rev Mol Cell Biol 1, 179-86. Abraham, R.T. (2004) DNA Repair (Amst) 3, 883-7. Shechter, D. et al. (2004) DNA Repair (Amst) 3, 901-8. Vauzour, D. et al. (2007) Arch Biochem Biophys 468, 159-66. Smith, J. et al. (2010) Adv Cancer Res 108, 73-112. Nam, E.A. et al. (2011) J Biol Chem 286, 28707-14. Liu, S. et al. (2011) Mol Cell 43, 192-202. 					
Species Reactivity	spe	cies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g., we	estern blot).	
Western Blot Buffe		ORTANT: For wester 6 Tween® 20 at 4°C			ed primary antibody in 59	% w/v BSA, 1X TBS,	
Applications Key	WB	: Western Blotting					
Cross-Reactivity Key		enopus Z: zebrafish	B: bovine Dg: dog	Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse All: all species expected			
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Phospho-ATR (Ser428) Antibody (#2853) Datasheet Without Images Cell Signaling Technology

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