Phospho-(Ser/Thr) ATM/ATR Substrate Antibody
 Cell Signaling Fee HNOLOGY*

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

Applications: WB, IP, E-P	Reactivity: All	: Sensitivity: Endogenous	Source: Rabbit		
Product Usage		Application			Dilution
Information		Western Blotting			1:1000
		Immunoprecipitation			1:20
		Peptide ELISA (DELFIA)			1:1000
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.			50% glycerol. Store at –
Specificity / Sensitiv	, 	Phospho-(Ser/Thr) ATM/ATR Substrate Antibody detects endogenous levels of proteins containing the ATM/ATR substrate motif. This antibody preferentially binds peptides and proteins that contain phospho-Ser/Thr preceded by Leu or similar hydrophobic amino acids at the -1 position and followed by GIn at the +1 position. The antibody does not cross-react with corresponding nonphosphorylated sequences or with other phospho-Ser/Thr-containing motifs. (U.S. Patent No's.: 6,441,140; 6,982,318; 7,259,022; 7,344,714; U.S.S.N. 11,484,485; and all foreign equivalents.)			
Source / Purification		Polyclonal antibodies are produced by immunizing animals with synthetic phospho-(Ser/Thr) ATM/ATR substrate peptides . Antibodies are purified by protein A and peptide affinity chromatography.			
Background	l	Ataxia telangiectasia mutated kinase (ATM) and ataxia telangiectasia and Rad3-related kinase (ATR) are related kinases that regulate cell cycle checkpoints and DNA repair (1). The identified substrates for ATM are p53, p95/NBS1, MDM2, Chk2, BRCA1, CtIP, 4E-BP1, and Chk1 (1,2) The essential requirement for the substrates of ATM/ATR is S			
Background Referer		 Kastan, M.B. and Lim, D.S. (2000) Nat Rev Mol Cell Biol 1, 179-86. Zhao, H. and Piwnica-Worms, H. (2001) Mol Cell Biol 21, 4129-39. Kim, S.T. et al. (1999) J Biol Chem 274, 37538-43. 			
Species Reactivity	S	pecies reactivity is determine	ned by testing in at le	ast 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	١	WB: Western Blotting IP: In	nmunoprecipitation E-	P: Peptide ELISA (DELFIA)	
Cross-Reactivity Ke	X		bovine Dg: dog Pg: p	ikey Vir: virus Mi: mink C: chic ig Sc: S. cerevisiae Ce: C. eleg ted	
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