Store at -20C

6966

## Phospho-ATM/ATR Substrate Motif [(pS/pT) QG] MultiMab<sup>®</sup> Rabbit mAb mix



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

Applications: W, IP	Reactivity: All	<b>Sensitivity:</b> Endogenous	Source/Isotype: Rabbit IgG
Product Usage Information		<b>Application</b> Western Blotting Immunoprecipitation	<b>Dilution</b> 1:1000 1:100
Storage			n HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than e at –20°C. Do not aliquot the antibody.
Specificity/Sensi	tivity	containing phospho-Ser c	ate Motif [(pS/pT) QG] MultiMab <sup>®</sup> Rabbit mAb mix recognizes proteins or phospho-Thr followed by Gln and Gly residues. To some extent, this proteins with an S*/T*Q motif.
Source / Purifica	tion	clones in optimized ratios based on motif recognition	onal mix antibodies are prepared by combining individual rabbit monoclonal for the approved applications. Each antibody in the mix is carefully selected on and performance in multiple assays. Each mix is engineered to yield the ge of the modification being studied while ensuring a high degree of ation or motif.
Background		related kinases that regul ATM are p53, p95/NBS1, M for the substrates of ATM. charged amino acids at po kinases. Positively charge phosphorylation (3). The o (3). To better understand	ated kinase (ATM) and ataxia telangiectasia and Rad3-related kinase (ATR) are ate cell cycle checkpoints and DNA repair (1). The identified substrates for MDM2, Chk2, BRCA1, CtIP, 4E-BP1, and Chk1 (1,2) The essential requirement /ATR is S*/T*Q. Hydrophobic amino acids at positions -3 and -1, and negatively osition +1 are positive determinants for substrate recognition by these d residues surrounding the S*/T*Q are negative determinants for substrate complex phenotype of AT cells suggests that it likely has additional substrates the kinase and identify substrates for ATM and the related kinase ATR, CST that recognize phosphorylated serine or threonine in the S*/T*Q motif.
Background Ref	erences	2. Zhao, H. and Piwnica-W	D.S. (2000) <i>Nature Rev. Mol. Cell Biol.</i> 1, 179-186. Jorms, H. (2001) <i>Mol. Cell. Biol.</i> 21, 4129-4139. <i>Biol. Chem.</i> 274, 37538-37543.
Species Reactivit	ty	Species reactivity is deter	mined by testing in at least one approved application (e.g., western blot).
Western Blot Bu	ffer		blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X I°C with gentle shaking, overnight.
Applications Key	,	W: Western Blotting IP: Ir	nmunoprecipitation
Cross-Reactivity	Кеу	All: All Species Expected	
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