Store at -20C

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Phospho-ATM/ATR Substrate (S*Q) (D23H2/D69H5) MultiMab[®] Rabbit mAb mix Cell Signaling T E C H N O L O G Y* Orders: 877-616-CELL (2355) orders@cellsignal.com Support: 877-678-TECH (8324)

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

Applications: Reactive WB, IP All	vity: Sensitivity: Endogenous	Source/Isotype: Rabbit IgG
Product Usage Information	Application Western Blotting Immunoprecipitation	Dilution 1:1000 1:50
Storage		ium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than tore at –20°C. Do not aliquot the antibody.
Specificity / Sensitivity	and proteins containing	bstrate Motif (S*Q) (D23H2/D69H5) MultiMab [®] Rabbit mAb mix recognizes peptides g sequences of phospho-Ser followed by GIn at the +1 position. The antibody does rresponding non-phosphorylated sequences or with other phospho-Ser containing
Source / Purification	clones in optimized ration based on motif recognit	clonal mix antibodies are prepared by combining individual rabbit monoclonal os for the approved applications. Each antibody in the mix is carefully selected tion and performance in multiple assays. Each mix is engineered to yield the rrage of the modification being studied while ensuring a high degree of specificity for if.
Background	related kinases that reg are p53, p95/NBS1, MD substrates of ATM/ATR amino acids at position charged residues surrou complex phenotype of A kinase and identify subs	putated kinase (ATM) and ataxia telangiectasia and Rad3-related kinase (ATR) are gulate cell cycle checkpoints and DNA repair (1). The identified substrates for ATM DM2, Chk2, BRCA1, CtIP, 4E-BP1, and Chk1 (1,2) The essential requirement for the is S*/T*Q. Hydrophobic amino acids at positions -3 and -1, and negatively charged +1 are positive determinants for substrate recognition by these kinases. Positively bunding the S*/T*Q are negative determinants for substrate phosphorylation (3). The AT cells suggests that it likely has additional substrates (3). To better understand the strates for ATM and the related kinase ATR, CST has developed antibodies that ted serine or threonine in the S*/T*Q motif.
Background References	2. Zhao, H. and Piwnica	n, D.S. (2000) Nature Rev. Mol. Cell Biol. 1, 179-186. a-Worms, H. (2001) Mol. Cell. Biol. 21, 4129-4139. 9) J. Biol. Chem. 274, 37538-37543.
Species Reactivity	Species reactivity is dete	ermined by testing in at least one approved application (e.g., western blot).
Western Blot Buffer		rn blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, 2 with gentle shaking, overnight.
Applications Key	WB: Western Blotting IF	P: Immunoprecipitation
Cross-Reactivity Key	X: Xenopus Z: zebrafish	rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse abbit All: all species expected
Trademarks and Patents	MultiMab is a registered	gy is a trademark of Cell Signaling Technology, Inc. trademark of Cell Signaling Technology, Inc. the property of their respective owners. Visit cellsignal.com/trademarks for more
Limited Uses	following terms apply to	pressly agreed in a writing signed by a legally authorized representative of CST, the Products provided by CST, its affiliates or its distributors. Any Customer's terms and dition to, or different from, those contained herein, unless separately accepted in

Phospho-ATM/ATR Substrate (S*Q) (D23H2/D69H5) MultiMab® Rabbit mAb mix (#9607) Datasheet Without I...

writing by a legally authorized representative of CST, are rejected and are of no force or effect.

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