#5161 Store at -20C

Phospho-ATRIP (Ser224) Antibody

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 86	Source: Rabbit	UniProt ID: #Q8WXE1	Entrez-Gene Id: 84126		
Product Usage Information	-	plication 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 / Sensiti		Phospho-ATRIP (Ser224) Antibody detects endogenous levels of ATRIP protein only when phosphorylated at Ser224.						
Species predicted t react based on 100 sequence homolog	%	use, Monkey						
Source / Purificatio		Polyclonal antibodies are produced by immunizing animals with a synthetic phoshopeptide corresponding to residues surrounding Ser224 of the human ATRIP protein.						
Background	DN/ ATF Dire resu dan regu stim loca Cyc	In response to genomic stress, the ATR interacting protein (ATRIP) binds and is phosphorylated by the DNA damage-and checkpoint-activated kinase ATR (ataxia-telangiectasia mutated and rad3-related). Both ATR and ATRIP are integral for checkpoint signaling and are critical in the DNA repair response (1-3). Direct interaction between ATRIP and replication protein A (RPA) at RPA-coated, single-stranded DNA results in the recruitment of phosphorylated ATR/ATRIP to stalled replication forks and sites of DNA damage (3). ATR/ATRIP coordinate DNA repair and cell cycle progression in conjunction with key regulatory proteins, such as Rad17 and the 9-1-1 complex (4). ATR associated with ATRIP can also be stimulated by topoisomerase II binding protein (TOPBP1), suggesting that ATRIP may regulate both ATR localization and activity (5). Cyclin dependent kinase 2 (CDK2) may participate in the regulation of DNA damage response and cell cycle control through phosphorylation of ATRIP at Ser224 (6).						
Background Refere	2. lt 3. Z 4. Y 5. B	 Cortez, D. et al. (2001) Science 294, 1713-1716. Itakura, E. et al. (2004) Biochem. Biophys. Res. Commun. 323, 1197-1202. Zou, L. and Elledge, S.J. (2003) Science 300, 1542-1548. Yang, X.H. and Zou, L. (2006) Methods Enzymol. 409, 118-131. Ball, H.L. et al. (2007) Mol Cell Biol 27, 3367-77. Myers, J.S. et al. (2007) Cancer Res 67, 6685-90. 						
Species Reactivity	Spec	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot Buffe		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	WB	WB: Western Blotting						
Cross-Reactivity K	X: X	 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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Phospho-ATRIP (Ser224) Antibody (#5161) Datasheet Without Images Cell Signaling Technology

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