TPX2 (D2R5C) XP[®] Rabbit mAb





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Applications: W, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit IgG	UniProt ID: #Q9ULW0	Entrez-Gene Id: 22974		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunofluorescence	(Immunocytochem	istry)		Dilution 1:1000 1:100 1:1600		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.						
Specificity/Sensitivity TPX2 (D2R5C) XP [®] Rabbit mAb recognizes endogenous levels of total TPX2 protein.								
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys420 of human TPX2 protein.						
Background The Ras family small GTPase Ran is involved in nuclear envelope formation, assembly of the n spindle, and nuclear transport (1,2). TPX2, a target of active Ran (RanGTP), is a microtubule nu protein. TPX2 is inactive when bound to nuclear importin-alpha. RanGTP activity disrupts this interaction, relieving inhibition of TPX2 (3). TPX2 binding activates Aurora A kinase and promo localization to the mitotic spindle (4,5). DNA damage in mitosis leads to loss of interaction bet Aurora A and TPX2 and inactivation of Aurora A kinase (6). TPX2 is highly expressed in pancrea cells, and knockdown of TPX2 expression in these cells is associated with increased sensitivity paclitaxel (7).						tubule nucleating rupts this nd promotes its action between in pancreatic cancer		
Background Ro	eferences	 Quimby, B.B. and Dasso, M. (2003) <i>Curr Opin Cell Biol</i> 15, 338-44. Hetzer, M. et al. (2002) <i>Nat Cell Biol</i> 4, E177-84. Gruss, O.J. and Vernos, I. (2004) <i>J Cell Biol</i> 166, 949-55. Kufer, T.A. et al. (2002) <i>J Cell Biol</i> 158, 617-23. Bayliss, R. et al. (2004) <i>Cell Cycle</i> 3, 404-7. Bhatia, P. et al. (2010) <i>Cell Cycle</i> 9, 4592-9. Warner, S.L. et al. (2009) <i>Clin Cancer Res</i> 15, 6519-28. 						
Species Reactiv	vity	Species reactivity is determined by testing in at least one approved application (e.g., western blot).						
Western Blot E	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 K	ey	W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)						
Cross-Reactivit	ty Key	H: Human Mk: Monkey						
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