45 Store at -200

TPX2 (D2R5C) XP® Rabbit mAb



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Applications: WB, IP, IF-IC	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 100	Source/Isotype: Rabbit IgG	UniProt ID: #Q9ULW0	Entrez-Gene ld: 22974
Product Usage Information	Ар	plication				Dilution
	We	estern Blotting				1:1000
	Im	munoprecipitation				1:100
	Im	munofluorescence (Immunocytochen	nistry)		1:1600
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.				
Specificity / Sens	itivity TP>	TPX2 (D2R5C) XP [®] Rabbit mAb recognizes endogenous levels of total TPX2 protein.				
Source / Purificat	-	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Lys420 of human TPX2 protein.				
Background	spir prot relie mito inac	The Ras family small GTPase Ran is involved in nuclear envelope formation, assembly of the mitotic spindle, and nuclear transport (1,2). TPX2, a target of active Ran (RanGTP), is a microtubule nucleating 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 promotes its localization to the mitotic spindle (4,5). DNA damage in mitosis leads to loss of interaction between Aurora A and TPX2 and inactivation of Aurora A kinase (6). TPX2 is highly expressed in pancreatic cancer cells, and knockdown of TPX2 expression in these cells is associated with increased sensitivity to paclitaxel (7).				
Background Refe	2. H 3. G 4. K 5. B 6. B	 Quimby, B.B. and Dasso, M. (2003) Curr Opin Cell Biol 15, 338-44. Hetzer, M. et al. (2002) Nat Cell Biol 4, E177-84. Gruss, O.J. and Vernos, I. (2004) J Cell Biol 166, 949-55. Kufer, T.A. et al. (2002) J Cell Biol 158, 617-23. Bayliss, R. et al. (2004) Cell Cycle 3, 404-7. Bhatia, P. et al. (2010) Cell Cycle 9, 4592-9. Warner, S.L. et al. (2009) Clin Cancer Res 15, 6519-28. 				

Species Reactivity

Species reactivity is determined by testing in at least 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 Cross-Reactivity Key WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)

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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