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TPX2 Antibody



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

Applications: WB	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 100	Source: Rabbit	UniProt ID: #Q9ULW0	Entrez-Gene Id: 22974	
Product Usage Information	•	plication estern Blotting		Dilution 1:1000			
Storage	Sup	3), 150 mM NaCl, 100 μg/ml BSA and 50% glycerol. Store at –		
Specificity / Sensitivity		TPX2 Antibody recognizes endogenous levels of total TPX2 protein.					
Source / Purificati	resi		ys420 of human TF	•	th a synthetic peptide co ies are purified by protei	, ,	
Background	spin 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).					
1. Quimby, B.B. and Dasso, M. (2. Hetzer, M. et al. (2002) Nat Company (2002) 3. Gruss, O.J. and Vernos, I. (2004) 4. Kufer, T.A. et al. (2002) J Cell Company (2004) 5. Bayliss, R. et al. (2004) Cell Company (2004) Cell Compan			2) Nat Cell Biol 4, I los, I. (2004) J Cell l2) J Cell Biol 158, (04) Cell Cycle 3, 40 0) Cell Cycle 9, 459	E177-84. <i>Biol</i> 166, 949-55. 617-23. 4-7. 2-9.	338-44.		

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

WB: Western Blotting

Cross-Reactivity Key

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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