e at -20C	RanBP1 Antibody				
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com		
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#		3 Trask Lane Danvers	Massachusetts 01923 USA		

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

Applications: WB	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 27	Source: Rabbit	UniProt ID: #P43487	Entrez-Gene Id: 5902		
Product Usage Information	App Wes	lication tern Blotting			Dilution 1:1000			
Storage	Supp 20°C	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	vity RanB	RanBP1 Antibody recognizes endogenous levels of total RanBP1 protein.						
Source / Purificatio	n Polyc residu affinit	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr193 of human RanBP1 protein. Antibodies are purified by protein A and peptide affinity chromatography.						
Background	RanB 3). Its maint and C RanG steps impor nucle micro regula show	RanBP1 is a Ran binding protein that functions in nuclear trafficking for both nuclear import and export (1- 3). Its protein sequence contains a Ran binding domain and a C-terminal nuclear export signal, which maintains its cytoplasmic localization (2,3). During nuclear export, RanBP1 forms a complex with RanGTP and CRM1/cargo, leading to dissociation of cargo from CRM1 (2,4). RanBP1 further stimulates RanGTP- RanGAP1 association to facilitate RanGTP hydrolysis and the generation of RanGDP to complete the final steps of nuclear export (5). During nuclear import, RanBP1 stabilizes the formation of a RanGDP- importin/NLS receptor-RanBP1 complex. This complex regulates the release of imported cargo into the nucleus (6,7). In addition to nuclear trafficking, RanBP1 also controls RanGTP distribution along mitotic microtubules, which localizes critical factors, such as cyclin B1 and HURP, to mitotic microtubles and regulates chromosome segregation (8,9). <i>In vivo</i> knock down or overexpression of RanBP1 has been shown to affect cellular ciliogenesis by regulating the local RanGTP concentation at the base of cilia (10).						
Background Refere	Inces 1. Bis 2. Kel 3. Ric 4. Koj 5. Sec 6. Ch 7. Lor 8. Tec 9. Di 1 10. Far	choff, F.R. et al. (1 hlenbach, R.H. et a hards, S.A. et al. (yama, M. and Mats ewald, M.J. et al. (i, N.C. et al. (1996 hlienne, T.G. et al. leschi, A. et al. (200 Fiore, B. et al. (2011) / S. et al. (2011) /	995) EMBO J 14, 7 al. (1999) J Cell Bio (1996) J Cell Biol 13 suura, Y. (2010) EM 2003) Mol Cell Biol) J Cell Biol 135, 55 . (2009) J Biol Cher 007) J Cell Sci 120, 03) J Cell Sci 116, 3 Mol Biol Cell 22, 45	705-15. 1/ 145, 645-57. 34, 1157-68. 1/BO J 29, 2002-13. 23, 8124-36. 59-69. n 284, 22549-58. 3748-61. 3399-411. 39-48.				
Species Reactivity	Specie	es reactivity is dete	ermined by testing i	n at least one appro	ved application (e.g., we	estern blot).		
Western Blot Buffe	r IMPOF 0.1% T	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 Ke	ey H: hur X: Xer GP: G	 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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RanBP1 Antibody (#8780) Datasheet Without Images Cell Signaling Technology

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