RAD21 (D213) Antibody			
Store at	Orders:	877-616-CELL (2355) orders@cellsignal.com	
	Support:	877-678-TECH (8324)	
#4321	Web:	info@cellsignal.com cellsignal.com	
74	3 Trask Lane Danvers Mas	ssachusetts 01923 USA	
For Research Use Only. Not for Use in Diagnostic Procedures.			

or Research Use Only. Not for Use in Diagnostic Procedures.								
	eactivity: M R Mk	Sensitivity: Endogenous	MW (kDa): 130	Source: Rabbit	UniProt ID: #O60216	Entrez-Gene Id 5885		
Product Usage	Ap	oplication				Dilution		
Information	W	estern Blotting				1:1000		
	Im	munoprecipitation				1:25		
	Im	munofluorescence (Immunocytochemis	try)		1:100		
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 / Sensitivit	y RA	RAD21 (D213) Antibody detects endogenous levels of total RAD21 protein.						
Species predicted to react based on 100% sequence homology:	Chi	cken, Bovine, Pig, H	lorse					
Source / Purification					h a synthetic peptide co I peptide affinity chrom			
Background	adc me con (3,4 coh clea pro coh	litional RAD21 and S diates the cohesion phosphorylated by I nplexes from the chr 4). RAD21 is cleaved lesin from centromer aved by caspase-3 a duct that translocate lesion of sister chror	STAG proteins (STA of two sister chrom Polo-like kinase (PL omosome arms; ho I by separin/ESPL1 res, enabling sister and caspase-7 durir s to the cytoplasm natids, the cohesin	G1, 2, or 3) (1,2). T atids after DNA repli K) during prophase wever, cohesin rem in anaphase, which chromatids to segre g apoptosis, resultir and may help to trig complex plays impo	1 (SMC1A or B) and SI hese proteins form a ri cation in S phase (1,2) , which leads to the dis ains bound to centrom leads to dissociation of gate during mitosis (5) ng in a 64 kDa carboxy ger apoptosis (6,7). In rtant roles in gene regu and ATR kinases upon I	ng-like structure that . RAD21 and STAG2 sociation of cohesin eres until anaphase of the remaining . RAD21 is also -terminal cleavage addition to mediating ulation and DNA		
Background Referenc	2. E 3. H 4. H 5. H 6. F	Peters, J.M. et al. (20 Barbero, J.L. (2009) (Hoque, M.T. and Ishil Hauf, S. et al. (2005) Hauf, S. et al. (2001) Pati, D. et al. (2002) Chen, F. et al. (2002)	Cell Mol Life Sci 66 kawa, F. (2001) J B PLoS Biol 3, e69. Science 293, 1320 Mol Cell Biol 22, 82	, 2025-35. iol Chem 276, 5059 -3. 67-77.	-67.			
Species Reactivity	Spe	cies reactivity is dete	ermined by testing i	n at least one appro	ved application (e.g., w	vestern blot).		
Western Blot Buffer		ORTANT: For wester 6 Tween® 20 at 4°C			d primary antibody in 5	% w/v BSA, 1X TBS,		
Applications Key	WB	: Western Blotting IF	P: Immunoprecipita	ion IF-IC: Immunofl	uorescence (Immunoc	ytochemistry)		
Cross-Reactivity Key	X : X		B: bovine Dg: dog	Pg: pig Sc: S. cere	Mi: mink C: chicken D visiae Ce: C. elegans I	•		

GP: Guinea Pig Rab: rabbit All: all species expected

Trademarks and Patents

Limited Uses

RAD21 (D213) Antibody (#4321) Datasheet Without Images Cell Signaling Technology

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