#5882 Store at -20C

STAG2 (D25A4) XP[®] Rabbit mAb

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	eactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 141	Source/Isotype: Rabbit IgG	UniProt ID: #Q8N3U4	Entrez-Gene Id 10735	
Product Usage Information	For This	For optimal ChIP results, use 10 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
	Ар	plication			Dilu	ition	
	We	estern Blotting			1:10	000	
	Im	munoprecipitation			1:10	00	
	Im	munofluorescence	(Immunocytochem	nistry)	1:10	00 - 1:400	
	Ch	romatin IP			1:50)	
Storage		plied in 10 mM sod 2% sodium azide. S		µg/ml BSA, 50% glyco ⁄.	erol and less than		
Specificity / Sensitivi				izes endogenous levels oteins, including STAG1		in. This antibody	
Species predicted to react based on 100% sequence homology:		cken, Bovine, Pig, F	Horse, Rabbit				
Source / Purification		noclonal antibody is dues surrounding P		unizing animals with a s TAG2 protein.	synthetic peptide corre	esponding to	
Background	add mec are com (3,4 coh clea proo coh	itional RAD21 and diates the cohesion phosphorylated by plexes from the ch). RAD21 is cleaved esin from centrome aved by caspase-3 a duct that translocate esion of sister chron	STAG proteins (S of two sister chro Polo-like kinase (I romosome arms; d by separin/ESPI res, enabling siste and caspase-7 du es to the cytoplasr matids, the cohes	odimer between SMC1 FAG1, 2, or 3) (1,2). The matids after DNA replica PLK) during prophase, v nowever, cohesin remai 1 in anaphase, which le er chromatids to segrega ring apoptosis, resulting n and may help to trigge n complex plays import sphorylated by ATM and	ese proteins form a rin ation in S phase (1,2). which leads to the diss ns bound to centrome eads to dissociation of ate during mitosis (5). in a 64 kDa carboxy- er apoptosis (6,7). In a ant roles in gene regu	g-like structure that RAD21 and STAG2 ociation of cohesin res until anaphase the remaining RAD21 is also terminal cleavage ddition to mediating lation and DNA	
Background Referen	2. B 3. H 4. H 5. H 6. P	eters, J.M. et al. (20 arbero, J.L. (2009) oque, M.T. and Ishi auf, S. et al. (2005) auf, S. et al. (2001) ati, D. et al. (2002) hen, F. et al. (2002)	Cell Mol Life Sci (ikawa, F. (2001) J) PLoS Biol 3, e69) Science 293, 132 Mol Cell Biol 22, {	56, 2025-35. <i>Biol Chem</i> 276, 5059-6 20-3. 3267-77.	7.		
Species Reactivity	Spec	cies reactivity is det	ermined by testing	in at least one approve	ed application (e.g., we	estern blot).	
Western Blot Buffer		DRTANT: For weste Tween® 20 at 4°C		membrane with diluted ng, overnight.	primary antibody in 59	% w/v BSA, 1X TBS,	
Applications Key							

1/1/24, 1:34 PM	STAG2 (D25A4) XP [®] Rabbit mAb (#5882) Datasheet Without Images Cell Signaling Technology WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)			
	ChIP: Chromatin IP			
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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