CHD3 Antibody			
Store	Orders:	877-616-CELL (2355) orders@cellsignal.com	
H	Support:	877-678-TECH (8324)	
#4241	Web:	info@cellsignal.com cellsignal.com	
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP	Reactivity: H M Mk	Sensitivity: Endogenous	MW (kDa): 260	Source: Rabbit	UniProt ID: #Q12873-3	Entrez-Gene Id: 1107	
Product Usage Information		ApplicationDilutionWestern Blotting1:1000					
	Im	nmunoprecipitation			1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.					
Specificity / Sens	itivity CH	CHD3 Antibody detects endogenous levels of total CHD3 protein.					
Source / Purificat	-	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to human CHD3 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	org and All and lysi SW pro act kno trai MT	Chromodomain-helicase-DNA-binding domain (CHD) proteins have been identified in a variety of organisms (1,2). This family of nine proteins is divided into three separate subfamilies: subfamily I (CHD1 and CHD2), subfamily II (CHD3 and CHD4), and subfamily III (CHD5, CHD6, CHD7, CHD8, and CHD9). All CHD proteins contain two tandem amino-terminal chromodomains, a SWI/SNF-related ATPase domain, and a carboxy-terminal DNA-binding domain (1,2). The chromodomains facilitate binding to methylated lysine residues of histone proteins and confer interactions with specific regions of chromatin. The SWI/SNF-related ATPase domain utilizes energy from ATP hydrolysis to modify chromatin structure. CHD proteins are often found in large, multiprotein complexes with their transcriptional activation or repression activity governed by other proteins within the complex. CHD3 (also known as Mi2- α) and CHD4 (also known as Mi2- β) are central components of the nucleosome remodeling and histone deacetylase (NuRD) transcriptional repressor complex, which also contains HDAC1, HDAC2, RBAP48, RBAP46, MTA1, MTA2, MTA3, and MBD3 (3-8). Both CHD3 and CHD4 contain two plant homeodomain (PHD) zinc finger domains that bind directly to HDAC1 and HDAC2.				subfamily I (CHD1 HD8, and CHD9). ted ATPase domain, ng to methylated matin. The atin structure. CHD ation or repression nd CHD4 (also eacetylase (NuRD) AP46, MTA1, MTA2,	
Background Refe	2. N 3. T 4.) 5. Z 6. E 7. S	Hall, J.A. and George Marfella, C.G. and Im Fong, J.K. et al. (1998 Kue, Y. et al. (1998) / Zhang, Y. et al. (1998 Bowen, N.J. et al. (20 Jones, P.L. et al. (2003 Fujita, N. et al. (2003	nbalzano, A.N. (200 8) <i>Nature</i> 395, 917 Mol Cell 2, 851-61. 8) Cell 95, 279-89. 004) Biochim Bioph 98) Nat Genet 19, 1	7) Mutat Res 618, 3 21. ys Acta 1677, 52-7.			
Species Reactivit	y Spe	cies reactivity is dete	ermined by testing i	n at least one appro	ved application (e.g., we	estern blot).	
Western Blot Buf			IT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BSA, 1X TBS, n® 20 at 4°C with gentle shaking, overnight.				
Applications Key	WE	B: Western Blotting I	P: Immunoprecipita	tion			
Cross-Reactivity	Кеу н : h х: Х	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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