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CHD8 (D3C1) Rabbit mAb



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

Applications: WB, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 290	Source/Isotype: Rabbit IgG	UniProt ID: #Q9HCK8	Entrez-Gene Id 57680	
Product Usage Information	Ap	plication		Dilution			
	We	Western Blotting			1:1000		
	Imr	nunoprecipitation		1:50			
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at -20° C. Do not aliquot the antibody.					
Specificity / Sens		y CHD8 (D3C1) Rabbit mAb recognizes endog reacts with a protein of unknown origin at 140			dogenous levels of total CHD8 protein. This antibody also cross- 140 kDa.		
Source / Purifica	••••	Monoclonal antibody is produced by immunizing animals with a recombinant protein specific to the carboxy terminus of human CHD8 protein.					
Background	CHD8 belongs to the chromodomain helicase DNA-binding (CHD) family of ATP-dependent chromater remodeling proteins (1). The CHD family of proteins has been shown to play an important role in region expression by utilizing the energy derived from ATP hydrolysis to alter chromatin architecture. The nine CHD family members are characterized by the presence of two tandem chromodomains in terminal region and an SNF2-like ATPase domain near the central region of the protein (2-4). In additional contents of the protein (2-4).					ant role in regulating architecture (1,2). modomains in the N-	

remodeling proteins (1). The CHD family of proteins has been shown to play an important role in regulating gene expression by utilizing the energy derived from ATP hydrolysis to alter chromatin architecture (1,2). The nine CHD family members are characterized by the presence of two tandem chromodomains in the N-terminal region and an SNF2-like ATPase domain near the central region of the protein (2-4). In addition, CHD8 contains three CR (conserved region) domains, a SANT (switching-defective protein 3, adaptor 2, nuclear receptor co-repressor, transcription factor IIB)-like domain, two BRK (brahma and kismet) domains, and a DNA-binding domain (2). The chromatin remodeling activity of CHD8 has been shown to be important for the regulation of a wide variety of genes, such as the HOX genes (5) and genes that are driven by β -catenin (6), p53 (7), estrogen receptor (8), or androgen receptor (9). CHD8 can also interact with the insulator binding protein CTCF and is required for CTCF insulator activity at multiple gene loci (10).

Background References

- 1. Hargreaves, D.C. and Crabtree, G.R. (2011) Cell Res 21, 396-420.
- 2. Marfella, C.G. and Imbalzano, A.N. (2007) Mutat Res 618, 30-40.
- 3. Delmas, V. et al. (1993) Proc Natl Acad Sci U S A 90, 2414-8.
- 4. Woodage, T. et al. (1997) Proc Natl Acad Sci U S A 94, 11472-7.
- 5. Yates, J.A. et al. (2010) FEBS Lett 584, 689-93.
- 6. Thompson, B.A. et al. (2008) Mol Cell Biol 28, 3894-904.
- 7. Nishiyama, M. et al. (2009) Nat Cell Biol 11, 172-82.
- 8. Caldon, C.E. et al. (2009) Mol Cell Biol 29, 4623-39.
- 9. Menon, T. et al. (2010) Mol Endocrinol 24, 1165-74.
- 10. Ishihara, K. et al. (2006) Mol Cell 23, 733-42.

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 IP: Immunoprecipitation

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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