

CHD8 (D3C1) Rabbit mAb



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 290	Source/Isotype: Rabbit IgG	UniProt ID: #Q9HCK8	Entrez-Gene Id: 57680
Product Usage Information		Application Western Blotting Immunoprecipitation		Dilution 1:1000 1:50		
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		CHD8 (D3C1) Rabbit mAb recognizes endogenous levels of total CHD8 protein. This antibody also cross-reacts with a protein of unknown origin at 140 kDa.				
Source / Purification		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 chromatin 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		 Hargreaves, D.C. and Crabtree, G.R. (2011) <i>Cell Res</i> 21, 396-420. Marfella, C.G. and Imbalzano, A.N. (2007) <i>Mutat Res</i> 618, 30-40. Delmas, V. et al. (1993) <i>Proc Natl Acad Sci U S A</i> 90, 2414-8. Woodage, T. et al. (1997) <i>Proc Natl Acad Sci U S A</i> 94, 11472-7. Yates, J.A. et al. (2010) <i>FEBS Lett</i> 584, 689-93. Thompson, B.A. et al. (2008) <i>Mol Cell Biol</i> 28, 3894-904. Nishiyama, M. et al. (2009) <i>Nat Cell Biol</i> 11, 172-82. Caldon, C.E. et al. (2009) <i>Mol Cell Biol</i> 29, 4623-39. Menon, T. et al. (2010) <i>Mol Endocrinol</i> 24, 1165-74. Ishihara, K. et al. (2006) <i>Mol Cell</i> 23, 733-42. 				
Species Reactiv	/ity	Species reactivity is de	etermined by testin	g in at least one approve	ed 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

W: Western Blotting IP: Immunoprecipitation

Cross-Reactivity Key

H: Human

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