

#7656 Store at -20C

CHD8 Antibody



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Applications:	Reactivity:	Sensitivity:	MW (kDa):	Source:	UniProt ID:	Entrez-Gene Id:
WB	H	Endogenous	290	Rabbit	#Q9HCK8	57680

Product Usage Information	Application Western Blotting	Dilution 1:1000
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 / Sensitivity	CHD8 Antibody recognizes endogenous levels of total CHD8 protein.	
Source / Purification	Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human CHD8 protein. Antibodies are purified by protein A and peptide affinity chromatography.	
Background	<p>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).</p>	
Background References	<ol style="list-style-type: none"> 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 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.
Applications Key	WB: Western Blotting
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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