

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

| Applications: React | | MW (kDa): 290 | Source/Isotype: Rabbit | UniProt ID: #Q9HCK8 | Entrez-Gene Id: 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 reco | CHD8 Antibody recognizes endogenous levels of total CHD8 protein. | | | | |
| Source / Purification | residues near the am | 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 | CHD8 belongs to the chromodomain helicase DNA-binding (CHD) family of ATP-dependent ch remodeling proteins (1). The CHD family of proteins has been shown to play an important role regulating gene expression by utilizing the energy derived from ATP hydrolysis to alter chrom architecture (1,2). The nine CHD family members are characterized by the presence of two tan chromodomains in the N-terminal region and an SNF2-like ATPase domain near the central re the protein (2-4). In addition, CHD8 contains three CR (conserved region) domains, a SANT (sw defective protein 3, adaptor 2, nuclear receptor co-repressor, transcription factor IIB)-like dom BRK (brahma and kismet) domains, and a DNA-binding domain (2). The chromatin remodeling of CHD8 has been shown to be important for the regulation of a wide variety of genes, such a genes (5) and genes that are driven by β-catenin (6), p53 (7), estrogen receptor (8), or androge receptor (9). CHD8 can also interact with the insulator binding protein CTCF and is required fo insulator activity at multiple gene loci (10). | | | | | |
| Background Reference | 2. Marfella, C.G. and 3 3. Delmas, V. et al. (19 4. Woodage, T. et al. (19 5. Yates, J.A. et al. (20 6. Thompson, B.A. et 7. Nishiyama, M. et a 8. Caldon, C.E. et al. (20 9. Menon, T. et al. (20 | 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> 12, 4623-39. Caldon, C.E. et al. (2009) <i>Mol Cell Biol</i> 24, 1165-74. Ishihara, K. et al. (2006) <i>Mol Cell</i> 23, 733-42. | | | | |
| Species Reactivity | Species reactivity is d | letermined 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 nonfat dry milk, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight. | | | | |
| Applications Key | W: Western Blotting | W: Western Blotting | | | | |
| Cross-Reactivity Key | H: Human | H: Human | | | | |
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