CHD7 (D3F5) Rabbit mAb



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Applications: WB, IP	Reactivity: H M	Sensitivity: Endogenous	MW (kDa): 336	Source/Isotype: Rabbit IgG	UniProt ID: #Q9P2D1	Entrez-Gene Id: 55636	
Product Usage Information	A	pplication		Dilution			
	W	estern Blotting			1:1000		
	Im	nmunoprecipitation		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 / Sensitivity CHD7 (D3F5) Rabbit mAb recognizes e reacts with proteins of unknown origin a			ndogenous levels of total CHD7 protein. This antibody also cross- t 50-55 kDa.				
Source / Purification Monoclonal antibody is produced by imm terminus of human CHD7 protein.				nunizing animals with a recombinant protein specific to the amino			
Background	CHD7 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 regulat gene expression by altering the chromatin structure at target genes (1,2). The nine members of the CHE family 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). The CHD proteins can be further divided into three subgroups based on the presence of additional conserved functional domains. CHD7 belongs to the third subgroup of CHD proteins together with CHD6, 8, and 9, which are distinguished by the presence of three conserved region (CR) domains, a switching-defective protein 3, adaptor 2, nuclear						

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. Schnetz, M.P. et al. (2010) PLoS Genet 6, e1001023.
- 6. Engelen, E. et al. (2011) Nat Genet 43, 607-11.
- 7. Bajpai, R. et al. (2010) Nature 463, 958-62.
- 8. Vissers, L.E. et al. (2004) Nat Genet 36, 955-7.

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.

receptor co-repressor, transcription factor IIB (SANT) like domain, two brahma and kismet (BRK) domains, and a DNA binding domain (2). CHD7 regulates embryonic stem cell (ESC) specific gene expression together with ESC master regulators Oct-4, Sox2 and nanog, and is necessary for neural stem cell development and formation of the neural crest (5-7). Research studies have shown that CHD7 mutations are frequently found in patients with CHARGE syndrome (coloboma of the eye, heart defects, atresia of the choanae, retardation of growth/development, genital/urinary abnormalities, and ear abnormalities and

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

deafness) (8).

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Limited Uses

CHD7 (D3F5) Rabbit mAb (#6505) Datasheet Without Images Cell Signaling Technology

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