Revisio	on 1			
Store at -20C	CHD5 (D2F9Q) Rabbit m	Ab	C T	ECHNOLOGY*
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Applications: W, IP, IHC-P	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 220	Source/Isotype: Rabbit IgG	UniProt ID: #Q8TDI0	Entrez-Gene Id 26038		
Product Usage Information		Application Western Blotting Immunoprecipitation Immunohistochemistry (Paraffin)			Dilution 1:1000 1:200 1:100			
Storage		Supplied in 10 mM soo 0.02% sodium azide. S	dium HEPES (pH 7.5 itore at –20°C. Do r	ö), 150 mM NaCl, 100 μg/ ot aliquot the antibody.	ml BSA, 50% glycer/	ol and less than		
Specificity/Sensitivity		CHD5 (D2F9Q) Rabbti mAb recognizes endogenous levels of total CHD5 protein.						
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly1564 of human CHD5 protein.						
		to its family members, CHD3 and CHD4 (1-3). CHD5 interacts with the nucleosome remodeling and deacetylation (NuRD) complex (1,4). CHD5 is characterized by two PHD domains, two chromo domains, a SNF2-like helicase/ATPase domain, as well as a conserved coiled-coil motif in the C-terminal region (1). CHD5 binds to the N-terminus of Histone H3 via its PHD domains (1). CHD5 was first characterized as a tumor suppressor gene found to be frequently lost in neuroblastomas (1). Since its initial discovery, CHD5 has been studied extensively and has been implicated in numerous other cancers including gliomas, breast, lung, ovarian, and prostate cancers as well as in laryngeal squamous cell carcinomas and gallbladder carcinoma (1). CHD5 is thought to be a prognostic marker in neuroblastoma patients. High CHD5 levels are strongly correlated with favorable clinical outcomes, whereas low or absent expression is associated with MYCN amplification and poor outcomes (1). In addition, CHD5 has a dual function in neurogenesis, playing a transcription activating role in neurogenesis, while interacting with the Polycomb group proteins to repress genes encoding regulators of other lineages. Deletion of CHD5 also inhibits neuronal differentiation leading to the accumulation of undifferentiated progenitors (5).						
Background References		1. Kolla, V. et al. (2014) 2. Thompson, P.M. et a 3. Garcia, I. et al. (2010 4. Potts, R.C. et al. (20 5. Egan, C.M. et al. (20) <i>Cancer Res</i> 74, 65 al. (2003) <i>Oncogen</i> D) <i>Mol Cancer</i> 9, 27 11) <i>PLoS One</i> 6, e24 13) <i>Dev Cell</i> 26, 223	2-8. 2 22, 1002-11. 7. 515. 3-36.				
Species Reactivi	ty	Species reactivity is de	etermined by testin	g in at least one approve	ed application (e.g.,	western blot).		
Western Blot Bu	ffer	IMPORTANT: For western blots, incubate membrane with diluted primary antibody in 5% w/v BS/ TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.				n 5% w/v BSA, 1X		
Applications Key	/	W: Western Blotting I	P: Immunoprecipita	ation IHC-P: Immunohist	ochemistry (Paraffi	n)		
Cross-Reactivity	Кеу	H: Human						
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