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e at -20C	SMARCA1 (D4Q7V) Rabbit mAb		Cell Signaling TECHNOLOGY®	
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	activity: Sensitivity: H Mk Endogenous	MW (kDa): 130	Source/Isotype: Rabbit IgG	UniProt ID: #P28370	Entrez-Gene Id: 6594		
Product Usage Information	Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:100			
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	/ SMARCA1 (D4Q7V) R	SMARCA1 (D4Q7V) Rabbit mAb recognizes endogenous levels of total SMARCA1 protein.					
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Pro73 of human SMARCA1 protein.					
Background	 mammalian genome (1 have been shown to re of the nucleosome rem (3-5). The NURF comp and regulation of <i>Engra</i> (3). NURF is also thoug chromatin structure and the NURF complex, BF tissue lineages, sugges (7). Disruption of the C associated with the neu neurulation (4). es 1. Lazzaro, M.A. and P 2. Erdel, F. and Rippe, 3. Barak, O. et al. (200 4. Banting, G.S. et al. (5. Ho, L. and Crabtree, 6. Landry, J.W. et al. (2 	 SMARCA1 (SNF2L) is one of the two orthologs of the ISWI (imitation switch) ATPases encoded by the mammalian genome (1). The ISWI chromatin remodeling complexes were first identified in <i>Drosophila</i> and have been shown to remodel and alter nucleosome spacing <i>in vitro</i> (2). SMARCA1 is the catalytic subunit of the nucleosome remodeling factor (NURF) and CECR2-containing remodeling factor (CERF) complexes (3-5). The NURF complex plays an important role in neuronal physiology by promoting neurite outgrowth and regulation of <i>Engrailed</i> homeotic genes that are involved in neuronal development in the mid-hindbrain (3). NURF is also thought to be involved in the maturation of T cells from thymocytes by regulating chromatin structure and expression of genes important for T cell development (6). The largest subunit of the NURF complex, BPTF, is required for proper development of mesoderm, endoderm, and ectoderm tissue lineages, suggesting a role for SMARCA1 in the development of the germ layers in mouse embryo (7). Disruption of the CERF complex by deletion of CECR2, an interacting partner of SMARCA1, is associated with the neural tube defect exencephaly, linking the CERF complex with regulation of neurulation (4). 1. Lazzaro, M.A. and Picketts, D.J. (2001) <i>J Neurochem</i> 77, 1145-56. 2. Erdel, F. and Rippe, K. (2011) FEBS J 278, 3608-18. 3. Barak, O. et al. (2003) <i>EMBO J</i> 22, 6089-100. 4. Banting, G.S. et al. (2005) <i>Hum Mol Genet</i> 14, 513-24. 5. Ho, L. and Crabtree, G.R. (2010) <i>Nature</i> 463, 474-84. 6. Landry, J.W. et al. (2008) <i>PLoS Genet</i> 4, e1000241. 					
Species Reactivity	Species reactivity is det	ermined by testin	g in at least one approve	ed application (e.g., we	estern 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	WB: Western Blotting I	WB: Western Blotting IP: Immunoprecipitation					
Cross-Reactivity Key	X: Xenopus Z: zebrafish	 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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Limited Uses							

SMARCA1 (D4Q7V) Rabbit mAb (#12483) Datasheet Without Images Cell Signaling Technology

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