mAb

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SMARCC1/BAF155 (D7F8S) Rabbit Orders: orders@cellsignal.com



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Applications: Re WB, IP, ChIP, ChIP-seq, H C&R, C&T	eactivity: M R Mk	Sensitivity: Endogenous	MW (kDa): 155	Source/Isotype: Rabbit IgG	UniProt ID: #Q92922	Entrez-Gene Id: 6599
Product Usage Information	For c	optimal ChIP and C) per IP. This antibo	hIP-seq results, dy has been vali	use 5 µl of antibody and dated using SimpleChIF	10 µg of chromatin [®] Enzymatic Chrom	(approximately 4 x 10 ⁶ latin IP Kits.
	The	CUT&RUN dilution	was determined	using CUT&RUN Assay	v Kit #86652.	
	The	The CUT&Tag dilution was determined using CUT&Tag Assay Kit #77552.				
	Ар	olication			Dilution	
	We	Western Blotting			1:1000	
	Imn	Immunoprecipitation			1:50	
	Chr	Chromatin IP			1:100	
	Chr	Chromatin IP-seq			1:100	
	CU	CUT&RUN			1:100	
	CU	T&Tag			1:100	
Storage	Supp 0.02	olied in 10 mM sodi % sodium azide. Si	ium HEPES (pH ⁻ tore at –20°C. Do	7.5), 150 mM NaCl, 100 o not aliquot the antibody	μg/ml BSA, 50% gly /.	vcerol and less than
Specificity / Sensitivit	y SMA prote	SMARCC1/BAF155 (D7F8S) Rabbit mAb recognizes endogenous levels of total SMARCC1/BAF155 protein.				
Source / Purification	Mon resid	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly975 of human SMARCC1/BAF155 protein.				
Background	ATP- proc comp ATPa the a subu trans facto targe	ATP-dependent chromatin remodeling complexes play an essential role in the regulation of nuclear processes such as transcription and DNA replication and repair (1,2). The SWI/SNF chromatin remodeling complex consists of more than 10 subunits and contains a single molecule of either BRM or BRG1 as the ATPase catalytic subunit. The activity of the ATPase subunit disrupts histone-DNA contacts and changes the accessibility of crucial regulatory elements to the chromatin. The additional core and accessory subunits play a scaffolding role to maintain stability and provide surfaces for interaction with various transcription factors and chromatin (2-5). The interactions between SWI/SNF subunits and transcription factors, such as nuclear receptors, p53, Rb, BRCA1, and MyoD, facilitate recruitment of the complex to target genes for regulation of gene activation, cell growth, cell cycle, and differentiation processes (1,6-9).				
	SMA nucle stem prop	SMARCC1/BAF155 is one of the core subunits of the SWI/SNF complex, which is necessary for efficient nucleosome remodeling by BRG1 <i>in vitro</i> (10). SMARCC1 is an essential part of the mouse embryonic stem cell specific SWI/SNF complex (esBAF), which is necessary for early embryogenesis, especially proper brain and visceral endoderm development (11-13).				
Background Referenc	2. Be 2. Be 3. Et 4. Bo 5. Ge 6. Le 7. Mo 8. W 9. Sii 10. Ph 11. He 12. Kii	b, L. and Crabtree, ecker, P.B. and Hör. berharter, A. and Be bwman, G.D. (2010 angaraju, V.K. and essard, J.A. and Cra brettini, S. et al. (200 olf, I.M. et al. (2006) mone, C. (2006) J helan, M.L. et al. (1 an, D. et al. (2008) m, J.K. et al. (2001)	G.R. (2010) Natu z, W. (2002) Ann ecker, P.B. (2004)) Curr Opin Struc Bartholomew, B. abtree, G.R. (201 008) Front Biosci 3) J Cell Biochem Cell Physiol 207, 999) Mol Cell 3, 2 Dev Biol 315, 130) Mol Cell Biol 21	<i>ure</i> 463, 474-84. <i>u Rev Biochem</i> 71, 247- <i>) J Cell Sci</i> 117, 3707-11 <i>et Biol</i> 20, 73-81. (2007) <i>Mutat Res</i> 618, 3 <i>0) Annu Rev Cell Dev E</i> 13, 5522-32. 104, 1580-6. 309-14. 247-53. 6-46. <i>,</i> 7787-95.	73. L. 3-17. Mol 26, 503-32.	

3/15/24, 10:41 AM	SMARCC1/BAF155 (D7F8S) Rabbit mAb (#11956) Datasheet Without Images Cell Signaling Technology					
	13. Schaniel, C. et al. (2009) <i>Stem Cells</i> 27, 2979-91.					
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 IP: Immunoprecipitation ChIP: Chromatin IP ChIP-seq: Chromatin IP-seq C&R: CUT&RUN C&T: CUT&Tag					
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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