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SMARCD3/BAF60C (D6F1S) Rabbit mAb

Applications: WB, IP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 60	Source/Isotype: Rabbit IgG	UniProt ID: #Q6STE5	Entrez-Gene Id: 6604
Product Usage Information		plication			Dilution	
mormation	We	estern Blotting			1:1000	
	Im	munoprecipitation			1:100	
Storage	•	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μg/ml BSA, 50% glycerol and less than 0.02% sodium azide. Store at –20°C. Do not aliquot the antibody.				
Specificity / Sensiti		SMARCD3/BAF60A (D6F1S) Rabbit mAb recognizes endogenous levels of total SMARCD3/BAF60C protein.			RCD3/BAF60C	
Source / Purificatio		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues near the amino terminus of human SMARCD3/BAF60C protein.				
Background	prod corr ATF the sub tran fact targ SM/ Kno as v defe corr	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). SMARCD3/BAF60C is essential for the development of the skeletal and cardiac muscle (10,11). Knockdown of SMARCD3/BAF60C using RNAi in mouse embryos leads to defects in heart development as well as abnormalities in the development of the cardiac and skeletal muscle, mimicking the cardiac defects observed in congenital heart disease (12). In addition, SMARCD3/BAF60C is part of the lipoBAF complex that remodels the chromatin structure to activate lipogenic genes, promoting lipogenesis in response to feeding and insulin (13).				
Background Refere	2. B 3. E 4. B 5. G 6. L 7. M 8. W 9. S 10. P 11. V 12. L	berharter, A. and Ber owman, G.D. (2010) angaraju, V.K. and B essard, J.A. and Cra forettini, S. et al. (200 /olf, I.M. et al. (2008) imone, C. (2006) <i>J C</i> uri, P.L. and Mercola	, W. (2002) Anno cker, P.B. (2004) Curr Opin Struc artholomew, B. btree, G.R. (201 08) Front Biosci J Cell Biochem cell Physiol 207, , M. (2012) Gen 12) Acta Biochin) Nature 432, 10	<i>I Rev Biochem</i> 71, 247- <i>J Cell Sci</i> 117, 3707-11 <i>t Biol</i> 20, 73-81. (2007) <i>Mutat Res</i> 618, 3 0) <i>Annu Rev Cell Dev B</i> 13, 5522-32. 104, 1580-6. 309-14. es Dev 26, 2673-83. n <i>Biophys Sin (Shangha</i> 17-12.	 3-17. viol 26, 503-32.	
Species Reactivity	Spec	cies reactivity is deter	mined by testing	j in at least one approve	ed application (e.g., we	estern blot).
Western Blot Buffe		DRTANT: For westerr 5 Tween® 20 at 4°C v		membrane with diluted ng, overnight.	primary antibody in 59	% w/v BSA, 1X TBS,
Applications Key	WB	: Western Blotting IP	: Immunoprecipi	tation		

1/1/24, 12:03 PM	SMARCD3/BAF60C (D6F1S) Rabbit mAb (#62265) Datasheet Without Images Cell Signaling Technology			
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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