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Applications: W, IP	<b>Reactivity:</b> H Mk	<b>Sensitivity:</b> Endogenous	<b>MW (kDa):</b> 80	<b>Source/Isotype:</b> Rabbit	UniProt ID: #Q9H8M2	Entrez-Gene Id: 65980	
Product Usage Information Storage	2	Application Western Blotting Immunoprecipitation Supplied in 10 mM soc		i), 150 mM NaCl, 100 μg	<b>Dilution</b> 1:1000 1:50 'ml BSA and 50% gl	ycerol. Store at –	
		20°C. Do not aliquot th	,		•		
Specificity/Sensitivity		BRD9 Antibody recognizes endogenous levels of total BRD9 protein. Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to					
Source / Purifi	cation		Leu530 of human E	3RD9 protein. Antibodies			
Background		The modulation of chromatin structure is an essential component in the regulation of transcriptional activation and repression. Modifications can be made by at least two evolutionarily conserved strategies, through the disruption of histone-DNA contacts by ATP-dependent chromatin remodelers, or by histone tail modifications including methylation and acetylation. One of the four classes of ATP-dependent histone remodelers is the SWI/SNF complex, the central catalytic subunit of which is Brg1 or the highly related protein hBRM (1). This SWI/SNF complex contains varying subunits but its association with either Brg1 or hBRM remains constant (1). SWI/SNF complexes have been shown to regulate gene activation, cell growth, the cell cycle, and differentiation (1). Brg1/hBRM have been shown to regulate transcription through enhancing transcriptional activation of glucocorticoid receptors (2). Although usually associated with transcriptional activation, Brg1/hBRM have also been found in complexes associated with transcriptional repression, including HDACs, Rb, and Tif1 $\beta$ (3-5). Brg1/hBRM plays a vital role in the regulation of gene transcription during early mammalian embryogenesis. In addition, Brg1/hBRM also plays a role as a tumor suppressor and Brg1 is mutated in several tumor cell lines (6-8). BRD7 and BRD9 are BET-containing members of the PBAF and BAF complexes respectively (9, 10). Many studies are looking at the design and implementation of specific BRD7/9 inhibitors to study their role in cancer (11-14). BRD9 inhibition has shown promise in combinational treatment of rhabdoid tumors, which have mutations in another BAF complex member SMARCB1/BAF47 (15).					
Background R	eferences	<ol> <li>2. Trotter, K.W. and Arc</li> <li>3. Sif, S. et al. (2001) <i>G</i></li> <li>4. Zhang, H.S. et al. (20</li> <li>5. Underhill, C. et al. (20</li> <li>6. Magnani, L. and Cal</li> <li>7. Medina, P.P. et al. (2</li> <li>8. Medina, P.P. et al. (2</li> <li>9. Middeljans, E. et al.</li> <li>10. Kadoch, C. et al. (20</li> <li>11. Picaud, S. et al. (20</li> <li>12. Theodoulou, N.H.</li> <li>13. Clark, P.G. et al. (20</li> </ol>	cher, T.K. (2007) <i>Mol enes Dev</i> 15, 603-1 2000) <i>Cell</i> 101, 79-89 2000) <i>J Biol Chem</i> 27 2000, <i>R.A.</i> (2009) <i>Rep</i> 008) <i>Epigenetics</i> 3, 008) <i>Hum Mutat</i> 29 (2012) <i>PLoS One</i> 7, 013) <i>Nat Genet</i> 45, 115) <i>J Med Chem</i> 58 et al. (2016) <i>J Med C</i> 015) <i>Angew Chem I</i> (2017) <i>Angew Chem</i> 1	75, 40463-70. <i>roduction</i> 137, 23-33. 64-8. 9, 617-22. e33834. 592-601. , 2718-36. Chem 59, 1425-39. <i>nt Ed Engl</i> 54, 6217-21. <i>n Int Ed Engl</i> 56, 5738-5 <sup>-</sup>			
Species Reacti	vity	Species reactivity is de	termined by testin	g in at least one approve	ed application (e.g.,	western blot).	
Western Blot E	Buffer			membrane with diluted with gentle shaking, ove		n 5% w/v nonfat	
Applications K	ey	W: Western Blotting I	<b>P:</b> Immunoprecipita	ation			

Cross-Reactivity Key	H: Human Mk: Monkey
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