3/20/24, 10:39 AM Revision 6

#11966 store at -20C (B8360) MBB	XP [®] Rabbit mA	b		Orders:	BI Signaling CHNOLOGY® 877-616-CELL (2355) orders@cellsignal.com
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For Research Use Only. Not for	Use in Diagnostic Proc	edures.			
Applications: React WB, W-S, IP, IHC-P, IF- H M IC, ChIP		MW (kDa): 200	Source/Isotype: Rabbit IgG	UniProt ID: #P51531	Entrez-Gene Id: 6595
Product Usage Information	For optimal ChIP result This antibody has been	s, use 5 µl of anti validated using \$	body and 10 µg of chror SimpleChIP [®] Enzymatic	natin (approximately Chromatin IP Kits.	v 4 x 10 ⁶ cells) per IP.
	Application	Application		Dilution	
	Western Blotting			1:100	00
	Simple Western™			1:10	- 1:50
	Immunoprecipitation			1:50	
	Immunohistochemistry	r (Paraffin)		1:400	0 - 1:1600
	Immunofluorescence (Immunocytochen	nistry)	1:320	00 - 1:6400
	Chromatin IP			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 / Sensitivity	BRM (D9E8B) XP $^{\textcircled{B}}$ Rabbit mAb recognizes endogenous levels of total BRM protein. This antibody does not cross-react with BRG1 protein.				
Species predicted to react based on 100% sequence homology:	Dog				
Source / Purification	Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Gly264 of human BRM protein.				

3/20/24, 10:39 AM	BRM (D9E8B) XP® Rabbit mAb (#11966) Datasheet Without Images Cell Signaling Technology		
Background	ATP-dependent chromatin remodeling complexes play an essential role in the regulation of various nucl processes, such as gene expression, DNA replication, and repair (1,2). The SWI/SNF chromatin remodeling complex consists of more than 10 subunits with a single molecule of the ATPase catalytic subunit BRM or BRG1, but not both. The activities of these two subunits drive the disruption of histone- DNA contacts that lead to changes in accessibility of crucial regulatory elements within chromatin (2-5) The BRM/BRG1 containing SWI/SNF complexes are recruited to target promoters by transcription factor such as nuclear receptors, p53, RB, and BRCA1 to regulate gene activation, cell growth, the cell cycle, differentiation processes (1,6-9). BRM and BRG1 are also considered to be tumor suppressors and the expression levels are severely reduced in several cancer cell lines (10-13).		
Background References	 Ho, L. and Crabtree, G.R. (2010) <i>Nature</i> 463, 474-84. Becker, P.B. and Hörz, W. (2002) <i>Annu Rev Biochem</i> 71, 247-73. Eberharter, A. and Becker, P.B. (2004) <i>J Cell Sci</i> 117, 3707-11. Bowman, G.D. (2010) <i>Curr Opin Struct Biol</i> 20, 73-81. Gangaraju, V.K. and Bartholomew, B. (2007) <i>Mutat Res</i> 618, 3-17. Lessard, J.A. and Crabtree, G.R. (2010) <i>Annu Rev Cell Dev Biol</i> 26, 503-32. Morettini, S. et al. (2008) <i>Front Biosci</i> 13, 5522-32. Wolf, I.M. et al. (2008) <i>J Cell Biochem</i> 104, 1580-6. Simone, C. (2006) <i>J Cell Physiol</i> 207, 309-14. Yamamichi, N. et al. (2005) <i>Oncogene</i> 24, 5471-81. Reisman, D.N. et al. (2002) <i>Oncogene</i> 21, 1196-207. Shen, H. et al. (2008) <i>Cancer Res</i> 68, 10154-62. Weissman, B. and Knudsen, K.E. (2009) <i>Cancer Res</i> 69, 8223-30. 		
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 W-S: Simple Western™ IP: Immunoprecipitation IHC-P: Immunohistochemistry (Paraffin) IF-IC: Immunofluorescence (Immunocytochemistry) ChIP: Chromatin IP		
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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