e at -20C	JMJD1B/JHDM2B Antibody		Cell Signaling
Store		Orders:	877-616-CELL (2355) orders@cellsignal.com
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For Research Use Only. Not for Use in Diagnostic Procedures.

Applications: WB, IP, IF-IC	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 220	Source: Rabbit	UniProt ID: #Q7LBC6	Entrez-Gene Id: 51780	
Product Usage Information	West	ication ern Blotting unoprecipitation unofluorescence (In	nmunocytochemis	iry)		Dilution 1:1000 1:25 1:100	
Storage		ied in 10 mM sodiu Do not aliquot the a), 150 mM NaCl, 10	00 μg/ml BSA and 50% (glycerol. Store at –	
Specificity / Sensitivity		JMJD1B/JHDM2B Antibody detects endogenous levels of JMJD1B protein (all three isoforms).					
Species predicted to react based on 1009 sequence homology	6	e					
Source / Purificatior	surrou			-	h a synthetic peptide co re purified by peptide aff		
Background	active develo histon demel α-ketc can be also k memb expres Mutati is requ STAT STAT widely as TR 15). M	and inactive region opment (1,2). Jumo e demethylase prot thylation of mono-, oglutarate (3). Base e divided into sever nown as JHDM2 (J pers: hairless (HR), ssed in the skin and ions in the hairless ic and post-meiotic uired for spermatog 3 and is critical for the expressed family r IP8) is a co-factor of	is of the genome a nji C (JmjC) doma teins (3). The JmjC di-, and tri-methyl d on homology, bo n separate families mjC domain-conta JMJD1A/JHDM2A d brain and acts as gene cause alope male germ cells, c enesis (7-9). It has he regulation of se member and is free fo both the androge	and is crucial for the in-containing prote c domain of several lysine residues via th humans and mid (3). The JMJD1 (J ining histone deme , JMJD1B/JHDM2E c a co-repressor of cia in both mice and ontributes to andro s also been identifie elf-renewal in embry quently deleted in r en and thyroid rece	a major determinant of the proper programming of ins represent the largest l proteins has been show an oxidative reaction the ce contain at least 30 su umonji domain-containin thylation protein 2) fami 3, and JMJD1C/JHDM20 the thyroid hormone rec d humans (4,5). JMJD1/ gen receptor-mediated ed as a downstream targ yonic stem cells (10,11). nyeloid leukemia (12). J ptors and has a potentia to demethylate mono-me	f the genome during class of potential wn to catalyze the at requires iron and ch proteins, which ng protein 1) family, ly, contains four C. Hairless is eptor (4-6). A is expressed in gene regulation, and get of OCT4 and JMJD1B is a more MJD1C (also known al link to autism (13-	
Background Refere	2. Lin, 3. Klos 4. Cac 5. Ahr 6. Pot 7. Höc 8. Yan 9. Oka 10. Loh 11. Ko, 12. Hu,	bicek, S. et al. (2006 W. and Dent, S.Y. se, R.J. et al. (2006 chon-Gonzalez, M.E nad, W. et al. (1998 ter, G.B. et al. (2007) og, C. et al. (2007) nane, K. et al. (2007) of, Y. H. et al. (2007) S.Y. et al. (2006) C Z. et al. (2001) On c, J.W. et al. (1995)	(2006) Curr Opin () Nat Rev Genet 7 3. et al. (1994) Pro 3) Science 279, 72 1) Genes Dev 15, Mol Reprod Dev 3 6) Cell 125, 483-9 Nature 450, 119-2 Genes Dev 21, 25 cell Struct Funct 31 cogene 20, 6946-5	Genet Dev 16, 137- 7, 715-27. c Natl Acad Sci US 0-4. 2687-701. 0, 173-81. 5. 23. 45-57. ., 53-62. 54.	42.		

/24, 7:21 AM	JMJD1B/JHDM2B Antibody (#2621) Datasheet Without Images Cell Signaling Technology 14. Wolf, S.S. et al. (2007) <i>Arch Biochem Biophys</i> 460, 56-66. 15. Castermans, D. et al. (2007) <i>Eur J Hum Genet</i> 15, 422-31.			
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 BSA, 1X TBS, 0.1% Tween® 20 at 4°C with gentle shaking, overnight.			
Applications Key	WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry)			
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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