JMJD1B (C69G2) Rabbit mAb



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Applications: W, IP, IF-IC, C&R	Reactivity: H Mk	Sensitivity: Endogenous	MW (kDa): 220	Source/Isotype: Rabbit IgG	UniProt ID: #Q7LBC6	Entrez-Gene Id: 51780
νν, 1r, 1r-1c, Cακ	TTIVIK	Lildogenous	220	Kabbit IgG	#Q7LBC0	31780
Product Usage Information		The CUT&RUN dilution was determined using CUT&RUN Assay Kit #86652.				
		Application				Dilution
		Western Blotting				1:1000
		Immunoprecipitation				1:25
		Immunofluorescence	e (Immunocytochem	nistry)		1:200
		CUT&RUN				1:50
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		JMJD1B (C69G2) Rabbit mAb detects endogenous levels of JMJD1B protein (all three isoforms). This antibody does not cross react with other Jumonji C proteins, including HR, JMJD1A and JMJD1C.				
Source / Purification		Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding to residues surrounding Thr579 of the human JMJD1B protein.				
Background		active and inactive reduring development potential histone der catalyze the demethy requires iron and α-k such proteins, which containing protein 1) protein 2) family, con JMJD1C/JHDM2C. Hai hormone receptor (4 JMJD1A is expressed mediated gene regul downstream target of stem cells (10,11). JM myeloid leukemia (12 receptors and has a pshown to demethylated)	egions of the genom (1,2). Jumonji C (Jmj methylase proteins (ylation of mono-, dietoglutarate (3). Bascan be divided into family, also known itains four members rless is expressed in-6). Mutations in the in meiotic and postation, and is require of OCT4 and STAT3 allocated by JMJD1C (also know obtential link to auticate mono-methyl and	in histone proteins is a ne and is crucial for the pC) domain-containing prG) domain-containing prG). The JmjC domain of square and tri-methyl lysine resed on homology, both his seven separate families as JHDM2 (JmjC domain-the skin and brain and the skin and germ cells, and for spermatogenesis (and is critical for the reguly expressed family menon as TRIP8) is a co-factor of di-methyl histone H3 (Line Res Found Workshop, 1	roper programmin toteins represent the everal proteins has sidues via an oxida numans and mice of (3). The JMJD1 (Jum-containing histone HDM2A, JMJD1B/JH acts as a co-repressipecia in both mice of contributes to and (7-9). It has also be lation of self-renewn or of both the androthe JMJD1/JHDM2 fys9) (3,8).	g of the genome are largest class of been shown to tive reaction that contain at least 30 conji domaindemethylation DM2B, and cor of the thyroid and humans (4,5). Irogen receptoren identified as a column and thyroid catly deleted in the period con the state of the
Background References		 Lin, W. and Dent, S.Y. (2006) Curr Opin Genet Dev 16, 137-42. Klose, R.J. et al. (2006) Nat Rev Genet 7, 715-27. Cachon-Gonzalez, M.B. et al. (1994) Proc Natl Acad Sci USA 91, 7717-21. Ahmad, W. et al. (1998) Science 279, 720-4. Potter, G.B. et al. (2001) Genes Dev 15, 2687-701. Höög, C. et al. (1991) Mol Reprod Dev 30, 173-81. Yamane, K. et al. (2006) Cell 125, 483-95. Okada, Y. et al. (2007) Nature 450, 119-23. Loh, Y.H. et al. (2007) Genes Dev 21, 2545-57. Ko, S.Y. et al. (2006) Cell Struct Funct 31, 53-62. Hu, Z. et al. (2001) Oncogene 20, 6946-54. Lee, J.W. et al. (2007) Arch Biochem Biophys 460, 56-66. 				

15. Castermans, D. et al. (2007) Eur J Hum Genet 15, 422-31.

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 W: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) C&R:

CUT&RUN

Cross-Reactivity Key H: Human Mk: Monkey

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