JMJD2B Antibody



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Applications: W, IP	Reactivity: H	Sensitivity: Endogenous	MW (kDa): 150	Source/Isotype: Rabbit	UniProt ID: #O94953	Entrez-Gene Id: 23030
Product Usage Information		Application Western Blotting Immunoprecipitation			Dilution 1:1000 1:25	
Storage		Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 μ g/ml BSA and 50% glycerol. Store at – 20°C. Do not aliquot the antibody.				
Specificity/Sensitivity		JMJD2B Antibody detects endogenous levels of total JMJD2B protein. The antibody does not cross-react with other Jumonji C proteins, including JMJD2A, JMJD2C and JMJD2D.				
Species predicted to react based on 100% sequence homology		Monkey				
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to the human JMJD2B protein. Antibodies are purified by protein A and peptide affinity chromatography.				
Background		active and inactive regi development (1,2). Jum histone demethylase pi tri-methyl lysine residu homology, both humar separate families (3). The domain-containing hist JMJD2A/JHDM3A, JMJD2 domain, these proteins to bind to methylated historians have been should be as both activators and coactivators of the and with Rb and NCoR core genes (8,9). JMJD2B ant JMJD2C, also known as and inhibition of JMJD2	ons of the genome onji C (JmjC) doma roteins (3). The Jmj es via an oxidative as and mice containe jumonji domain one demethylatio (B/JHDM3B, JMJD2) also contain JmjN istone H3 at Lys4 own to demethylative repressors of transport receptor in pressor complexed agonizes histone IGASC1, is amplifie C expression decre	n histone proteins is a ne and is crucial for propain-containing proteins if Commain can catalyze to reaction that requires in at least 30 such protein-containing protein 2 (Jin protein 3 (JHDM3) fam C/JHDM3C, and JMJD2D/I, PHD, and tudor domai and Lys9, and methylatie di- and tri-methyl histoscription (6-11). JMJD2A, prostate tumor cells (7), and is necessary for the Lys9 tri-methylation d in squamous cell carcieases cell proliferation (ritical for the regulation	er programming of represent the larges the demethylation of ron and α-ketoglutains, which can be di MJD2) family, also knily, contains four m'/JHDM3D. In additions the latter of whis the latter of whis at Lys9 and JMJD2C, and JMJD2C, and JMJD2J anscriptional represat pericentric heter inomas and metast 11,12). JMJD2C has	the genome during st class of potential of mono-, di-, and arate (3). Based on vided into 7 nown as the JmjC nembers: In to the JmjC ich has been shown s20 (4,5). JMJD2 Lys36 and function D function as A also associates assion of target ochromatin (10). atic lung carcinoma also been identified
Background References		1. Kubicek, S. et al. (2006) <i>Ernst Schering Res Found Workshop</i> , 1-27. 2. Lin, W. and Dent, S.Y. (2006) <i>Curr Opin Genet Dev</i> 16, 137-42. 3. Klose, R.J. et al. (2006) <i>Nat Rev Genet</i> 7, 715-27. 4. Chen, Z. et al. (2007) <i>Proc Natl Acad Sci USA</i> 104, 10818-23. 5. Lee, J. et al. (2008) <i>Nat Struct Mol Biol</i> 15, 109-11. 6. Whetstine, J.R. et al. (2006) <i>Cell</i> 125, 467-81. 7. Shin, S. and Janknecht, R. (2007) <i>Biochem Biophys Res Commun</i> 359, 742-6. 8. Gray, S.G. et al. (2005) <i>J Biol Chem</i> 280, 28507-18. 9. Zhang, D. et al. (2005) <i>Mol Cell Biol</i> 25, 6404-14. 10. Fodor, B.D. et al. (2006) <i>Genes Dev</i> 20, 1557-62. 11. Cloos, P.A. et al. (2006) <i>Stature Val</i> 42, 307-11.				

12. Italiano, A. et al. (2006) *Cancer Genet Cytogenet* 167, 122-30.

13. Loh, Y.H. et al. (2007) Genes Dev 21, 2545-57.

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

Cross-Reactivity Key H: Human

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