LSD1 (C69G12) Rabbit mAb			CHNOLOGY* 877-616-CELL (2355) orders@cellsignal.com
4		Support:	877-678-TECH (8324)
2184		Web:	info@cellsignal.com cellsignal.com
#	3 Trask I	ane Danvers Ma	assachusetts 01923 USA
For Research Use Only. Not for			Entra Oracial
Applications: Reactiv WB, IP, IHC-P, IF-IC, H M R ChIP		UniProt ID: #O60341	Entrez-Gene Id: 23028
Product Usage Information	For optimal ChIP results, use 10 μ l of antibody and 10 μ g of chr This antibody has been validated using SimpleChIP^® Enzymatic	omatin (approximate Chromatin IP Kits.	ely 4 x 10 ⁶ cells) per IP.
	Application		Dilution
	Western Blotting		1:1000
	Immunoprecipitation		1:50
	Immunohistochemistry (Paraffin)		1:800
	Immunofluorescence (Immunocytochemistry)		1:800
	Chromatin IP		1:50
Storage	Supplied in 10 mM sodium HEPES (pH 7.5), 150 mM NaCl, 100 0.02% sodium azide. Store at –20°C. Do not aliquot the antibod		ycerol and less than
Specificity / Sensitivity	LSD1 (C69G12) Rabbit mAb detects endogenous levels of total	LSD1 protein.	
Source / Purification	Monoclonal antibody is produced by immunizing animals with a residues near the amino-terminus of human LSD1 protein.	synthetic peptide co	prresponding to
Background	Lysine-specific demethylase 1 (LSD1; also known as AOF2 and homolog that acts as a histone demethylase and transcription cr is specifically regulated by the methylation state of distinct histo methylation of histone H3 at Lys4 facilitates transcriptional activ BPTF, a component of the NURF chromatin remodeling comple histone methyltransferase complexes (2,3). In contrast, methyla transcriptional repression by recruiting HP1 (4,5). LSD1 is a con repressor complex that also contains CoREST, CtBP, HDAC1 at demethylates mono-methyl and di-methyl histone H3 at Lys4 the to facilitate neuronal-specific gene repression in non-neuronal c with androgen receptor in human prostate cells to demethylate a Lys9 and facilitate androgen receptor-dependent transcriptional gene context LSD1 can function as either a transcriptional co-re inhibited by the amine oxidase inhibitors pargyline, deprenyl, clo	ofactor (1). Gene ac ne protein lysine res ation by coordinating k, and WDR5, a con tion of histone H3 a nponent of the CoRI nd HDAC2. As part of rough a FAD-depend ells (1,6,7). In contra nono-methyl and di- activation (8). There pressor or co-activa	tivation and repression sidues. For example, g the recruitment of nponent of multiple t Lys9 facilitates EST transcriptional co- of this complex, LSD1 dent oxidation reaction ast, LSD1 associates -methyl histone H3 at efore, depending on ttor. LSD1 activity is
Background References	 Shi, Y. et al. (2004) <i>Cell</i> 119, 941-953. Wysocka, J. et al. (2006) <i>Nature</i> 442, 86-90. Wysocka, J. et al. (2005) <i>Cell</i> 121, 859-872. Jacobs, S.A. and Khorasanizadeh, S. (2002) <i>Science</i> 295, 205. Nielsen, P.R. et al. (2002) <i>Nature</i> 416, 103-107. Shi, Y.J. et al. (2005) <i>Mol. Cell</i> 19, 857-864. Lee, M.G. et al. (2005) <i>Nature</i> 437, 432-435. Metzger, E. et al. (2005) <i>Nature</i> 437, 436-439. 	80-2083.	
Species Reactivity	Species reactivity is determined by testing in at least one approv	ed application (e.g.,	western blot).
Western Blot Buffer	IMPORTANT: For western blots, incubate membrane with diluted 0.1% Tween® 20 at 4°C with gentle shaking, overnight.	primary antibody in	5% w/v BSA, 1X TBS,
Applications Key			

1/1/24, 7:53 AM	LSD1 (C69G12) Rabbit mAb (#2184) Datasheet Without Images Cell Signaling Technology WB: Western Blotting 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 	
Trademarks and Patents	Cell Signaling Technology is a trademark of Cell Signaling Technology, Inc. Alexa Fluor is a registered trademark of Life Technologies Corporation. U.S. Patent No. 7,429,487, foreign equivalents, and child patents deriving therefrom. All other trademarks are the property of their respective owners. Visit cellsignal.com/trademarks for more information.	
Limited Uses	Except as otherwise expressly agreed in a writing signed by a legally authorized representative of CST, the following terms apply to Products provided by CST, its affiliates or its distributors. Any Customer's terms and conditions that are in addition to, or different from, those contained herein, unless separately accepted in writing by a legally authorized representative of CST, are rejected and are of no force or effect.	
	Products are labeled with For Research Use Only or a similar labeling statement and have not been approved, cleared, or licensed by the FDA or other regulatory foreign or domestic entity, for any purpose. Customer shall not use any Product for any diagnostic or therapeutic purpose, or otherwise in any manner that conflicts with its labeling statement. Products sold or licensed by CST are provided for Customer as the end-user and solely for research and development uses. Any use of Product for diagnostic, prophylactic or therapeutic purposes, or any purchase of Product for resale (alone or as a component) or other commercial purpose, requires a separate license from CST. Customer shall (a) not sell, license, loan, donate or otherwise transfer or make available any Product to any third party, whether alone or in combination with other materials, or use the Products to manufacture any commercial products, (b) not copy, modify, reverse engineer, decompile, disassemble or otherwise attempt to discover the underlying structure or technology of the Products, or use the Products for the purpose of developing any products any trademarks, trade names, logos, patent or copyright notices or markings, (d) use the Products solely in accordance with CST Product Terms of Sale and any applicable documentation, and (e) comply with any license, terms of service or similar agreement with respect to any third party products or services used by Customer in connection with the Products.	