139 Store at -20C Store at -20C	oody					BI Signaling CHNOLOGY* 877-616-CELL (2355) orders@cellsignal.com 877-678-TECH (8324) info@cellsignal.com	
#2				3 Trasl	k Lane Danvers Ma	cellsignal.com ssachusetts 01923 USA	
For Research Use Only. I	Not for Use in	Diagnostic Proc	edures.	0 11401			
Applications: WB, IP, IF-IC, FC-FP, ChIP	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 110	Source: Rabbit	UniProt ID: #060341	Entrez-Gene Id: 23028	
Product Usage Information	For This	For optimal ChIP results, use 10 μ I of antibody and 10 μ g of chromatin (approximately 4 x 10 ⁶ cells) per IP. This antibody has been validated using SimpleChIP [®] Enzymatic Chromatin IP Kits.					
	Ap	plication				Dilution	
	We	estern Blotting				1:1000	
	Im	munoprecipitation				1:50	
		munofluorescence (-	try)		1:400	
		ow Cytometry (Fixed	/Permeabilized)			1:400	
	Ch	romatin IP				1:50	
Storage		oplied in 10 mM sodi C. Do not aliquot the		i), 150 mM NaCl, 1	00 μg/ml BSA and 50%	6 glycerol. Store at –	
Specificity / Sensitivity		LSD1 Antibody detects endogenous levels of total LSD1 protein.					
Source / Purification		Polyclonal antibodies are produced by immunizing animals with a synthetic peptide corresponding to residues near the amino-terminus of human LSD1 protein. Antibodies are purified by protein A and peptide affinity chromatography.					
Background	hon is s met BP ⁻ hist tran rep den to fa with Lys gen	nolog that acts as a pecifically regulated hylation of histone H IFF, a component of one methyltransfera iscriptional repression ressor complex that nethylates mono-me acilitate neuronal-sp n androgen receptor 9 and facilitate andr is context LSD1 can	histone demethylas by the methylation 13 at Lys4 facilitate the NURF chromati se complexes (2,3) on by recruiting HP also contains CoRI also contains CoRI thyl and di-methyl I ecific gene repress in human prostate ogen receptor-depe- function as either a	e and transcription state of distinct his s transcriptional act n remodeling comp . In contrast, methy L (4,5). LSD1 is a c EST, CtBP, HDAC1 histone H3 at Lys4 fon in non-neuronal cells to demethylate ndent transcriptional co-	nd BHC110) is a nucle cofactor (1). Gene act tone protein lysine res tivation by coordinating lex, and WDR5, a corr relation of histone H3 at omponent of the CoRE and HDAC2. As part of through a FAD-depend cells (1,6,7). In contra e mono-methyl and di- al activation (8). There repressor or co-activa clorgyline and tranylog	ivation and repression idues. For example, g the recruitment of uponent of multiple Lys9 facilitates EST transcriptional co- of this complex, LSD1 lent oxidation reaction lest, LSD1 associates methyl histone H3 at fore, depending on tor. LSD1 activity is	
Background Refere	2. V 3. V 4. J 5. N 6. S 7. L	hi, Y. et al. (2004) C Vysocka, J. et al. (20 Vysocka, J. et al. (20 acobs, S.A. and Khu lielsen, P.R. et al. (20 hi, Y.J. et al. (2005) ee, M.G. et al. (2005) letzger, E. et al. (20	006) Nature 442, 86 005) Cell 121, 859-8 orasanizadeh, S. (2 002) Nature 416, 1 Mol. Cell 19, 857-8 5) Nature 437, 432-	372. 002) <i>Science</i> 295, 03-107. 64. 435.	2080-2083.		
Species Reactivity	Spec	cies reactivity is dete	ermined by testing i	n at least one appro	oved application (e.g.,	western blot).	
Western Blot Buffe		ORTANT: For weste 6 Tween® 20 at 4°C			ed primary antibody in	5% w/v BSA, 1X TBS,	

5/3/24, 10:31 AM Applications Key	LSD1 Antibody (#2139) Datasheet Without Images Cell Signaling Technology WB: Western Blotting IP: Immunoprecipitation IF-IC: Immunofluorescence (Immunocytochemistry) FC-FP: Flow Cytometry (Fixed/Permeabilized) 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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