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Applications: W	Reactivity: H M R Mk	Sensitivity: Endogenous	MW (kDa): 92	Source/Isotype: Rabbit IgG	UniProt ID: #Q8NB78	Entrez-Gene Id: 221656	
Product Usage Information		Application Western Blotting			Dilution 1:1000		
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/Sens	cificity/Sensitivity LSD2 (E1R6O) Rabbit mAb recognizes endogenous levels of total LSD2 protein. This antibody doe cross-react with LSD1 protein.				ntibody does not		
Source / Purifica	e / Purification Monoclonal antibody is produced by immunizing animals with a synthetic peptide corresponding residues surrounding Leu467 of human LSD2 protein.					rresponding to	
Background		Lysine-specific demethylase 2 (LSD2; also known as AOF1) is a nuclear amine oxidase homolog that acts as a histone demethylase and transcription cofactor protein (1,2). LSD2 functions as a co-repressor protein by demethylating mono-methyl and di-methyl histone H3 Lys4, two marks associated with actively transcribed genes (1,2). LSD2-mediated demethylation of histone H3 Lys4 is required for establishing proper DNA methylation imprints during oogenesis (3). In addition, LSD2 appears to be overexpressed in malignant breast cancers, where it contributes to DNA methylation and repression of multiple tumor suppressor genes (4,5). Furthermore, LSD2 also contains E3 ubiquitin ligase activity that targets O-GlcNac transferase (OGT) for proteosomal degradation (6). A549 lung cancer cell growth is dependent on this E3 ubiquitin ligase activity, suggesting that this function of LSD2 is also important for proper gene regulation (6).					
Background Ref	erences	1. Yang, Z. et al. (2010) 2. Fang, R. et al. (2010) 3. Ciccone, D.N. et al. (4. Huang, Y. et al. (201 5. Chen, L. et al. (2015) 6. Yang, Y. et al. (2015)) <i>Cell Res</i> 20, 276-87) <i>Mol Cell</i> 39, 222-33 (2009) <i>Nature</i> 461, 4 8) <i>Aging (Albany N</i>) <i>Oncotarget</i> 8, 817) <i>Mol Cell</i> 58, 47-59.	7. 3. 115-8. Y) 10, 11-12. 37-53.			
Species Reactivi	ty	Species reactivity is de	etermined by testing	g in at least one approve	d application (e.g.,	western blot).	
Western Blot Bu	ıffer	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	y	W: Western Blotting					
Cross-Reactivity	' Key	H: Human M: Mouse R: Rat Mk: Monkey					
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