

LSD2 / AOF1 Rabbit pAb

Catalog # AP97693

Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	Q8NB78
Other Accession	Q8NB78
Host	Rabbit
Clonality	Polyclonal
Calculated MW	92098
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human LSD2 / AOF1
Epitope Specificity	51-150/822
Isotype	IgG
Purity	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the flavin monoamine oxidase family. Contains 1 CW-type zinc finger. Contains 1 SWIRM domain.
SUBUNIT	Does not form a complex with RCOR1/CoREST (By similarity).
Important Note	This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.
Background Descriptions	Flavin-dependent histone demethylases, such as KDM1B, regulate histone lysine methylation, an epigenetic mark that regulates gene expression and chromatin function (Karytinis et al., 2009 [PubMed 19407342]).[supplied by OMIM, Oct 2009]

Additional Information

Gene ID	221656
Other Names	AOF1; C6orf193; LSD2; KDM1B_HUMAN; KDM1B; Flavin-containing amine oxidase domain-containing protein 1; Lysine-specific histone demethylase 1B; 1.14.99.66; lysine demethylase 1B; amine oxidase, flavin containing 1; chromosome 6 open reading frame 193; amine oxidase (flavin containing) domain 1; lysine (K)-specific demethylase 1B
Dilution	IHC-P=1:100-500,IHC-F=1:100-500,ICC/IF=1:100-500,IF=1:100-500,ELISA=1:500 0-10000
Storage	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

Protein Information

Name	KDM1B (HGNC:21577)
Function	Histone demethylase that demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. Required for de novo DNA methylation of a subset of imprinted genes during oogenesis. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Demethylates both mono- and di-methylated 'Lys-4' of histone H3. Has no effect on tri-methylated 'Lys-4', mono-, di- or tri-methylated 'Lys-9', mono-, di- or tri-methylated 'Lys-27', mono-, di- or tri-methylated 'Lys-36' of histone H3, or on mono-, di- or tri-methylated 'Lys-20' of histone H4. Alone, it is unable to demethylate H3K4me on nucleosomes and requires the presence of GLYR1 to achieve such activity, they form a multifunctional enzyme complex that modifies transcribed chromatin and facilitates Pol II transcription through nucleosomes (PubMed: 30970244).
Cellular Location	Nucleus. Chromosome. Note=Found in actively RNAPolIII- transcribed gene bodies.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.