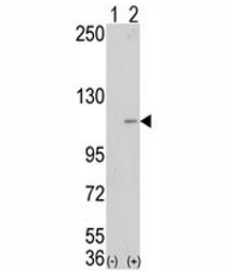
LSD1 Antibody (F41979)

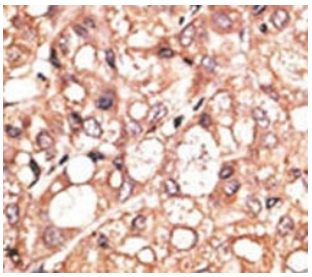
Catalog No.	Formulation	Size
F41979-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F41979-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Predicted Reactivity	Mouse
Format	Purified
Host	Rabbit
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	O60341
Applications	Western blot: 1:1000 IHC (Paraffin): 1:50-1:100
Limitations	This LSD1 antibody is available for research use only.



Western blot analysis of LSD1 antibody and 293 cell lysate (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the AOF2 gene (2). Expected molecular weight ~110kDa.



LSD1 Antibody Hepatocarcinoma IHC. Immunohistochemistry analysis of FFPE human hepatocarcinoma stained with the LSD1 antibody.

Description

LSD1 is a histone demethylase that specifically demethylates 'Lys-4' of histone H3, a specific tag for epigenetic transcriptional activation, thereby acting as a corepressor. LSD1 contains a SWIRM domain, a FAD-binding motif, and an amine oxidase domain. This protein is a component of several histone deacetylase complexes, though it silences genes by functioning as a histone demethylase. It acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. LSD1 demethylates both mono- and tri-methylted 'Lys-4' of histone H3. This protein may play a role in the repression of neuronal genes. Alone, it is unable to demethylate H3 'Lys-4' on nucleosomes and requires the presence of RCOR1/CoREST to achieve such activity. It may also demethylate 'Lys-9' of histone H3, a specific tag for epigenetic transcriptional repression, thereby leading to derepression of androgen receptor target genes.

Explore our LSD1 Antibody / Epigenetic Regulation Marker page for additional validation data and research applications involving chromatin remodeling, histone demethylation, and transcription-associated epigenetic regulation.

Application Notes

Titration of the LSD1 antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 457-490 from the human protein was used as the immunogen for this LSD1 antibody.

Storage

Aliquot the LSD1 antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.

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