

LSD1 Monoclonal Antibody (1B2E5)

Catalog NumberMA5-15273

Product data sheet

Details		Species Reactivity	
Size	100 µL	Species reactivity	Human, Mouse, Non-human primate
Host/Isotope	Mouse / IgG1	<div><div>Tested Applications</div><div>Dilution *</div></div>	
Class	Monoclonal		
Type	Antibody		
Clone	1B2E5		
Immunogen	Purified recombinant fragment of human LSD1 expressed in E. Coli.	ELISA (ELISA)	1:10,000
Conjugate	Unconjugated	Immunohistochemistry (Paraffin) (IHC (P))	1:200-1:1,000
Form	Liquid	Western Blot (WB)	1:500-1:2,000
Concentration	Conc. Not Determined	<div>* Suggested working dilutions are given as a guide only. It is recommended that the user titrate the product for use in their own experiment using appropriate negative and positive controls.</div>	
Storage buffer	ascites		
Contains	0.03% sodium azide		
Storage Conditions	Store at 4°C short term. For long term storage, store at -20°C, avoiding freeze/thaw cycles.		

**Product specific information**

MA5-15273 targets LSD1/AOF2 in indirect ELISA, IHC and WB applications and shows reactivity with Human, mouse, and Non-human primate samples. The MA5-15273 immunogen is purified recombinant fragment of human LSD1 expressed in E. Coli. MA5-15273 detects LSD1/AOF2 which has a predicted molecular weight of approximately 93kDa.

**Background/Target Information**

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. Mutations affecting this gene can result in cleft palate, psychomotor retardation, and distintive facial features.

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