

## Product datasheet for **TA347223**

### **KDM1A Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	ELISA, IP, WB
<b>Recommended Dilution:</b>	ELISA (1:100); Western blotting (1:1,000); Immunoprecipitation (2 g/IP)
<b>Reactivity:</b>	Human
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	The immunogen for anti-LSD1 antibody: human JMJD2a (Jumonji domain containing 2a), using a KLH-conjugated synthetic peptide containing a sequence from the central part of the protein.
<b>Concentration:</b>	lot specific
<b>Purification:</b>	Affinity purified polyclonal antibody in PBS containing 0.05% azide and 0.05% ProClin 300.
<b>Conjugation:</b>	Unconjugated
<b>Storage:</b>	Store at -20°C as received.
<b>Stability:</b>	Stable for 12 months from date of receipt.
<b>Gene Name:</b>	lysine demethylase 1A
<b>Database Link:</b>	<a href="#">NP_001009999</a> <a href="#">Entrez Gene 23028 Human</a> <a href="#">O60341</a>
<b>Background:</b>	LSD1 (lysine specific demethylase 1, UniProt/Swiss-Prot entry O60341) is a component of the histone demethylase complex which uses FAD as a prosthetic group. LSD1 may have a dual effect on gene transcription. As it demethylates the mono- and dimethylated 'Lys-4' of histone H3, which are associated with transcriptional activation, LSD1 can act as a repressor of gene expression. However, LSD1 is also capable of demethylating 'Lys-9' of histone H3, a specific tag for epigenetic transcriptional repression, thereby leading to activation of androgen receptor target genes. As a consequence, LSD1 is involved in different processes such as embryonic development, cell differentiation and proliferation, and stem and cancer cell biology.

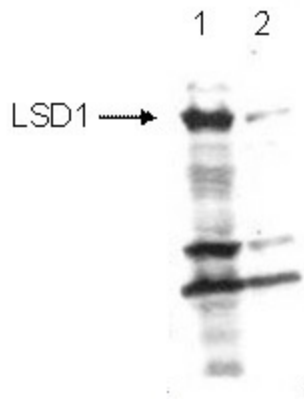


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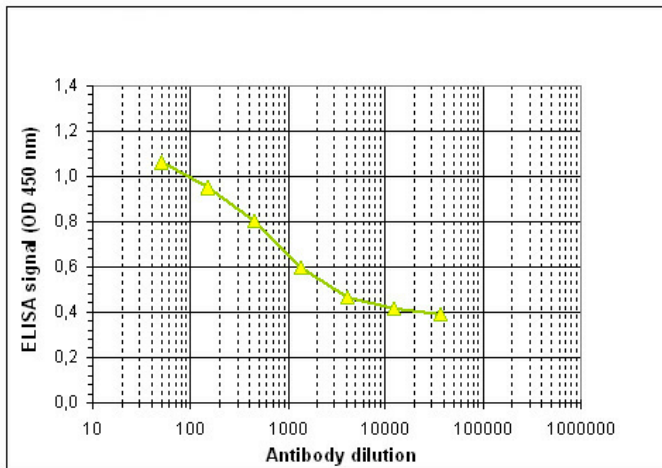
**Synonyms:** AOF2; BHC110; CPRF; KDM1; LSD1

**Protein Families:** Druggable Genome, Transcription Factors

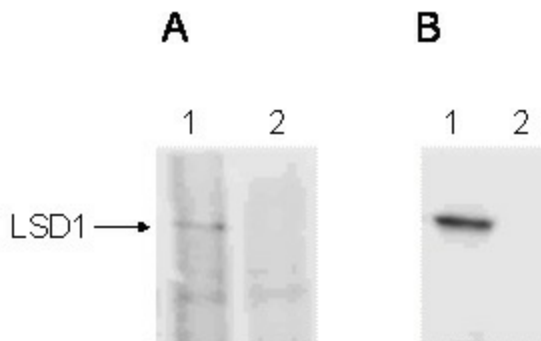
**Product images:**



WB was performed using respectively 150 ug (lane 1) or 50 ug (lane 2) nuclear extracts from HeLa cells and the antibody against LSD1 diluted 1:1,000. The location of the protein of interest is indicated on the left.



**Determination of the antibody titer** To determine the titer of the antibody, an ELISA was performed using a serial dilution of the antibody against human LSD1. The plates were coated with the peptide used for immunization of the rabbit. By plotting the absorbance against the antibody dilution (Figure 1), the titer of the antibody was estimated to be 1:2,500.



Immunoprecipitation and WB using the antibody against human LSD1 (cat. No. pAb-125-050), diluted 1:1,000. Figure 3B. Whole cell extracts were immunoprecipitated with 2 ug of the antibody against LSD1. Immunoprecipitates were analysed by WB as described above.