

## Product datasheet for **TA306302**

### **KDM1A Rabbit Polyclonal Antibody**

#### **Product data:**

<b>Product Type:</b>	Primary Antibodies
<b>Applications:</b>	IF, IHC, WB
<b>Recommended Dilution:</b>	WB: 1 - 2 ug/mL, ICC: 2 ug/mL, IF: 20 ug/mL
<b>Reactivity:</b>	Human, Mouse, Rat
<b>Host:</b>	Rabbit
<b>Isotype:</b>	IgG
<b>Clonality:</b>	Polyclonal
<b>Immunogen:</b>	LSD1 antibody was raised against a 16 amino acid peptide from near the center of human LSD1.
<b>Formulation:</b>	PBS containing 0.02% sodium azide.
<b>Concentration:</b>	1ug/ul
<b>Purification:</b>	Affinity chromatography purified via peptide column
<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 99982 Mouse</a> <a href="#">Entrez Gene 500569 Rat</a> <a href="#">Entrez Gene 23028 Human</a> <a href="#">O60341</a>



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**Background:**

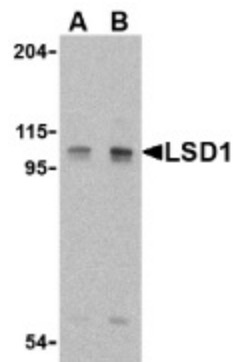
Histone modifications mediate changes in gene expression by altering chromatin structure or by serving as a platform to recruit other proteins. LSD1 is a recently discovered amine oxidase that catalyzes the lysine-specific demethylation of histone proteins via an FAD-dependent oxidative reaction (1). Methylation on histone H3-K9 is thought to play an important role in heterochromatin formation, while methylation on arginine and some lysine residues (such as H3-K4) is associated with active transcription (2). LSD1 associates with various proteins, including HDAC1/2, CoREST, and BHC80, that act to regulate LSD1 activity in vivo, and in a histone H3-K4-specific methylase complex that is involved in transcriptional regulation (3,4). Experiments have shown that CoREST, a SANT domain-containing corepressor (5) acts to enhance LSD1 activity, while BHC80, a PHD domain-containing protein (6), inhibits CoREST/LSD1 activity in vitro (3). LSD1-mediated histone demethylation thus may have significant effects on gene expression.

**Synonyms:**

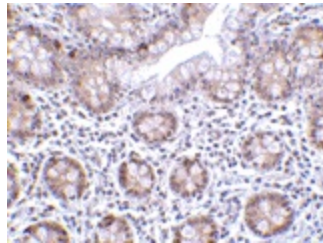
AOX2; BHC110; CPRF; KDM1; LSD1

**Protein Families:**

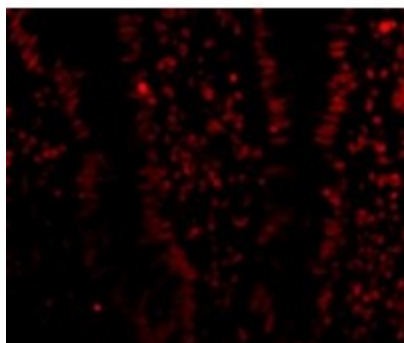
Druggable Genome, Transcription Factors

**Product images:**

Western blot analysis of LSD1 in P815 cell lysate with LSD1 antibody at (A) 1 and (B) 2 ug/ml.



Immunohistochemistry of LSD1 in human small intestine tissue with LSD1 antibody at 2 ug/ml.



Immunofluorescence of LSD1 in Human Small Intestine cells with LSD1 antibody at 20 ug/mL.