

## Product datasheet

## Anti-KDM1/LSD1 antibody ab62582

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## 製品の概要

製品名	Anti-KDM1/LSD1 antibody
製品の詳細	Rabbit polyclonal to KDM1/LSD1
由来種	Rabbit
アプリケーション	適用あり: ICC/IF, IHC-P, WB
種交差性	交差種: Mouse, Human
免疫原	Synthetic 16 amino acid peptide from near the centre of human KDM1 / LSD1.
ポジティブ・コントロール	WB: MCF-7, Jurkat, and P815 cell lysates. IHC-P: Human small intestine tissue.
特記事項	<p>The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.</p> <p>If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&amp;As</p>

## 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Store at -20°C. Avoid freeze / thaw cycle.
バッファー	pH: 7.2 Preservative: 0.02% Sodium azide Constituent: PBS
精製度	Immunogen affinity purified
ポリ/モノ	ポリクローナル
アイソタイプ	IgG

## アプリケーション

## The Abpromise guarantee

**Abpromise保証は、次のテスト済みアプリケーションにおけるab62582の使用に適用されます**

アプリケーションノートには、推奨の開始希釈率がありますが、適切な希釈率につきましてはご検討ください。

アプリケーション	Abreviews	特記事項
ICC/IF		Use a concentration of 20 µg/ml.
IHC-P		Use a concentration of 2 µg/ml.
WB	★★★☆☆ (1)	Use a concentration of 0.2 - 2 µg/ml. Detects a band of approximately 105 kDa (predicted molecular weight: 93 kDa).

## ターゲット情報

### 機能

Histone demethylase that demethylates both 'Lys-4' (H3K4me) and 'Lys-9' (H3K9me) of histone H3, thereby acting as a coactivator or a corepressor, depending on the context. Acts by oxidizing the substrate by FAD to generate the corresponding imine that is subsequently hydrolyzed. Acts as a corepressor by mediating demethylation of H3K4me, a specific tag for epigenetic transcriptional activation. Demethylates both mono- (H3K4me1) and di-methylated (H3K4me2) H3K4me. May play a role in the repression of neuronal genes. Alone, it is unable to demethylate H3K4me on nucleosomes and requires the presence of RCOR1/CoREST to achieve such activity. Also acts as a coactivator of androgen receptor (ANDR)-dependent transcription, by being recruited to ANDR target genes and mediating demethylation of H3K9me, a specific tag for epigenetic transcriptional repression. The presence of PRKCB in ANDR-containing complexes, which mediates phosphorylation of 'Thr-6' of histone H3 (H3T6ph), a specific tag that prevents demethylation H3K4me, prevents H3K4me demethylase activity of KDM1A. Demethylates di-methylated 'Lys-370' of p53/TP53 which prevents interaction of p53/TP53 with TP53BP1 and represses p53/TP53-mediated transcriptional activation. Demethylates and stabilizes the DNA methylase DNMT1. Required for gastrulation during embryogenesis.

### 組織特異性

Ubiquitously expressed.

### 配列類似性

Belongs to the flavin monoamine oxidase family.

Contains 1 SWIRM domain.

### ドメイン

The SWIRM domain may act as an anchor site for a histone tail.

### 細胞内局在

Nucleus.

## 画像



Western blot - Anti-KDM1/LSD1 antibody (ab62582)

**All lanes :** Anti-KDM1/LSD1 antibody (ab62582) at 1 µg/ml

**Lane 1 :** MCF7 (human breast adenocarcinoma cell line) cell lysate  
**Lane 2 :** Jurkat (human T cell leukemia cell line from peripheral blood) cell lysate

Lysates/proteins at 15 µg per lane.

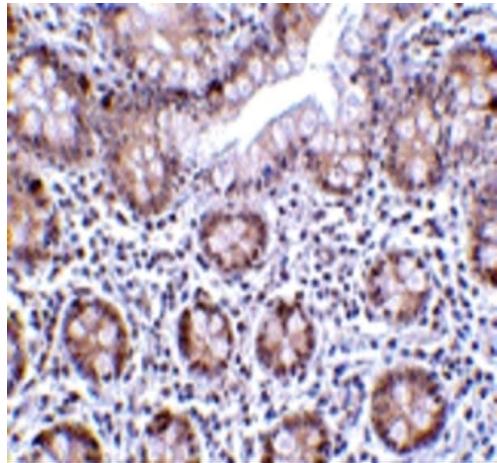
#### Secondary

**All lanes :** Goat anti-rabbit IgG (HRP) at 1/10000 dilution

**Predicted band size:** 93 kDa

**Observed band size:** 110 kDa

Diluting buffer and concentration: 5% NFDM/TBST.

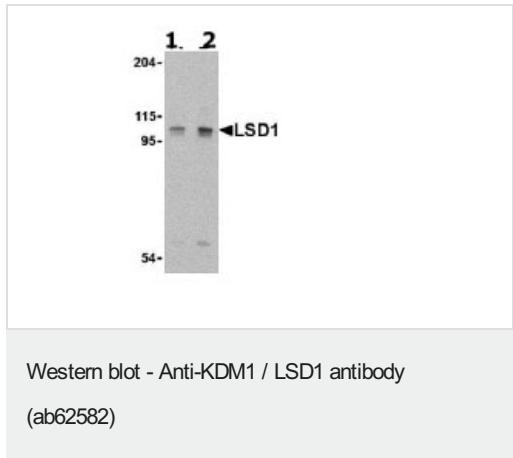


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-KDM1/LSD1 antibody (ab62582)

Immunohistochemical analysis of paraffin-embedded human small intestine tissue using ab62582 at 2 µg/ml. Tissue was fixed with formaldehyde and blocked with 10% serum for 1 h at RT; antigen retrieval was by heat mediation with a citrate buffer (pH6). Samples were incubated with primary antibody overnight at 4°C. A goat anti-rabbit IgG H&L (HRP) at 1/250 was used as secondary. Counter stained with Hematoxylin.

Immunocytochemistry/ Immunofluorescence - Anti-KDM1/LSD1 antibody (ab62582)

Immunofluorescence of LSD1 in Human Small Intestine cells using ab62582 at 20 µg/ml.



**Lane 1 :** Anti-KDM1/LSD1 antibody (ab62582) at 1 µg/ml

**Lane 2 :** Anti-KDM1/LSD1 antibody (ab62582) at 2 µg/ml

**All lanes :** P815 cell lysate

Lysates/proteins at 15 µg per lane.

**Predicted band size:** 93 kDa

**Observed band size:** 105 kDa

**Additional bands at:** 60 kDa. We are unsure as to the identity of these extra bands.

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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