

Recombinant Human KDM1/LSD1 protein ab125649

画像数 1

製品の詳細

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| 製品名 | Recombinant Human KDM1/LSD1 protein |
| 精製度 | > 95 % Densitometry. Affinity purified. |
| 発現系 | Baculovirus infected Sf9 cells |
| アクセッション番号 | <u>O60341</u> |
| タンパク質長 | Protein fragment |
| Animal free | No |
| 由来 | Recombinant |
| 生物種 | Human |
| 予測される分子量 | 100 kDa including tags |
| 領域 | 172 to 852 |

特性

Our **Abpromise guarantee** covers the use of **ab125649** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

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| アプリケーション | Western blot SDS-PAGE |
| 製品の状態 | Liquid |

前処理および保存

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| 保存方法および安定性 | Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 7.50 Constituents: 0.31% Glutathione, 0.002% PMSF, 0.005% DTT, 0.79% Tris HCl, 0.003% EDTA, 25% Glycerol (glycerin, glycerine), 0.88% Sodium chloride |
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関連情報

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| 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.

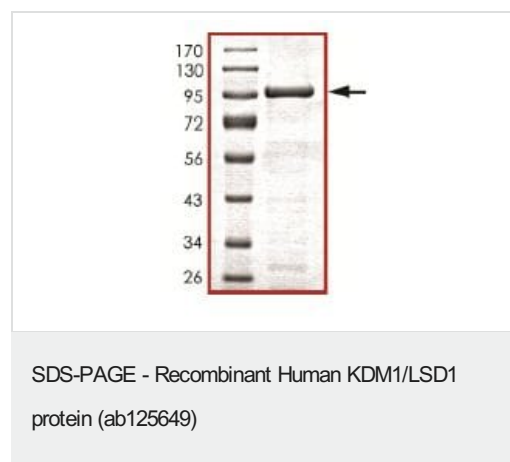
ドメイン

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

細胞内局在

Nucleus.

画像



SDS-PAGE analysis of ab125649.

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