

# Recombinant human KDM2A protein (Active) ab271507

画像数 2

### 製品の詳細

製品名	Recombinant human KDM2A protein (Active)
生理活性	Specific Activity: 0.01 pmole/min/μg.
精製度	>= 80 % SDS-PAGE. Affinity purified.
発現系	Baculovirus infected Sf9 cells
アクセッション番号	<u><a href="#">Q9Y2K7</a></u>
タンパク質長	Protein fragment
Animal free	No
由来	Recombinant
生物種	Human
配列	EPEEERIRYSQRLRGTMRRRRYEDDGISDDEIEGKRTFDLEEK LHTNKYNA NFVTFMEGKDFNVEYIQRGGLRDPLIFKNSDGLGIKMPDPDF TVNDVKMC VGSRRMVDVMDVNTQKGIEMTMAQWTRYETPEEEREKLYNV ISLEFSHT RLENMVQRSTVDFIDWVDNMWPRHLKESQTESTNAILEMQY PKVQKYCL MSVRGCYDFHVDFGGTSVWYHIHQGGKVFWLIPPTAHNLEL YENWLLSG KQGDIFLGDRVSDCQRIELKQGYTFVIPSGWIHAVYTPDTL VFGGNFLH SFNIPMQLKIYNIEDRTRVPNKFRYPFYEMCWYVLERVYVC ITNRSHLT KEFQKESLSMDLELNGLESGNGDEEAVDREPRRLSSRRSVLT SPVANGVN LDYDGLGKTCRSLPSLKKTLAGDSSSDCSRGSHNGQVWDPQC APRKDRQV HLTHFELEGLRCLVDKLESLPLHKKCVPTGIEDEDALIADV ILLEELAN SDPKLALTGVPIVQWPKRDKLKFPTRPKVRVPTIPITKPHTM KPAPRLTP VRPAAASPIVSGARRRRVRCRKCKACVQGEQVCHYCRDMKK FGGPGRMK

QSCVLRQCLAPRLPHSVTCSLCGEVDQNEETQDFEKKLMECC  
ICNEIVHP  
GCLQMDGEGLLNEELPNCWECPKCYQEDSSEKAQKRKMEESD  
EEAVQAK

予測される分子量 82 kDa  
領域 2 to 700  
タグ DDDDK tag N-Terminus , Avi tag N-Terminus

## 特性

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Our **Abpromise guarantee** covers the use of **ab271507** in the following tested applications.

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

アプリケーション Functional Studies  
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. Store at -80°C. Avoid freeze / thaw cycle.  
pH: 8.00  
Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 0.04% Tween, 20% Glycerol (glycerin, glycerine)  
80 µg/ml DDDDK peptide  
This product is an active protein and may elicit a biological response in vivo, handle with caution.

## 関連情報

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機能 Histone demethylase that specifically demethylates 'Lys-36' of histone H3, thereby playing a central role in histone code. Preferentially demethylates dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36'. May also recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation. Required to maintain the heterochromatic state. Associates with centromeres and represses transcription of small non-coding RNAs that are encoded by the clusters of satellite repeats at the centromere. Required to sustain centromeric integrity and genomic stability, particularly during mitosis.

組織特異性 Widely expressed, with highest levels in brain, testis and ovary, followed by lung.

配列類似性 Belongs to the JHDM1 histone demethylase family.  
Contains 1 CXXC-type zinc finger.  
Contains 1 F-box domain.  
Contains 1 JmjC domain.  
Contains 6 LRR (leucine-rich) repeats.  
Contains 1 PHD-type zinc finger.

ドメイン The JmjC domain mediates demethylation activity and is required for satellite silencing. The CXXC zinc finger preferentially recognizes nonmethylated CpG DNA, and binding is blocked when the CpG DNA is methylated.

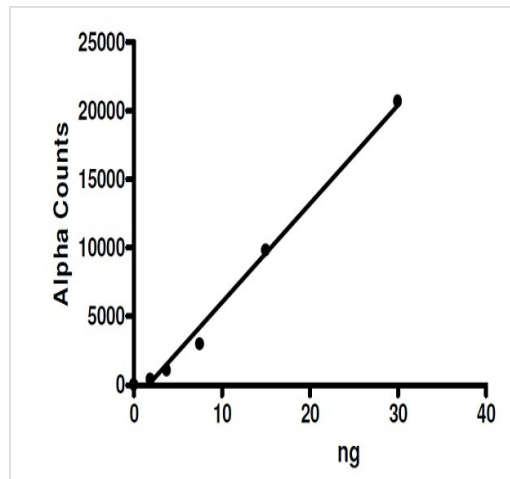
## 翻訳後修飾

Phosphorylated upon DNA damage, probably by ATM or ATR.

## 細胞内局在

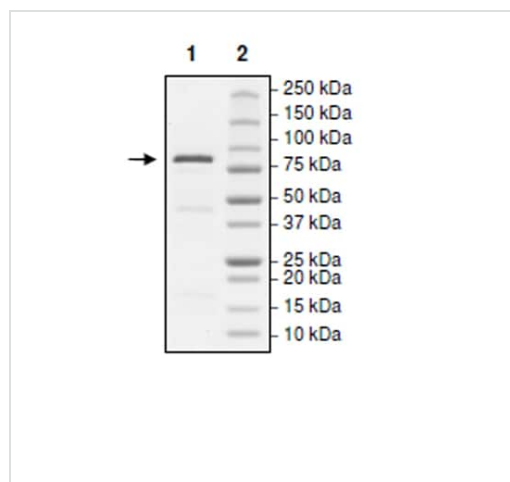
Nucleus > nucleoplasm. Punctate expression throughout the nucleoplasm and enriched in the perinucleolar region. Specifically nucleates at CpG islands where it's presence results in chromatin depleted in H3K36me2.

## 画像



Specific activity of ab271507.

Functional Studies - Recombinant human KDM2A protein (Active) (ab271507)



SDS-PAGE analysis of 3.9 µg ab271507.

SDS-PAGE - Recombinant human KDM2A protein (Active) (ab271507)

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

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