

### Recombinant human PHF8 protein (Active) ab271713

画像数 2

#### 製品の詳細

製品名	Recombinant human PHF8 protein (Active)
生理活性	Specific Activity: 0.013 pmol/min/μg.
精製度	>= 60 % SDS-PAGE. Affinity purified.
発現系	Baculovirus infected Sf9 cells
アクセッション番号	<b><u>Q9UPP1</u></b>
タンパク質長	Full length protein
Animal free	No
由来	Recombinant
生物種	Human
予測される分子量	120 kDa including tags
領域	2 to 1060
タグ	DDDDK tag N-Terminus

#### 特性

Our **Abpromise guarantee** covers the use of **ab271713** 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

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
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This product is an active protein and may elicit a biological response in vivo, handle with caution.

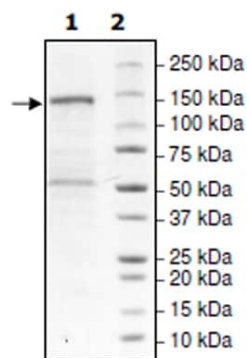
## 関連情報

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機能	Histone lysine demethylase with selectivity for the di- and monomethyl states that plays a key role in cell cycle progression, rDNA transcription and brain development. Demethylates mono- and dimethylated histone H3 'Lys-9' residue (H3K9Me1 and H3K9Me2), dimethylated H3 'Lys-27' (H3K27Me2) and monomethylated histone H4 'Lys-20' residue (H4K20Me1). Acts as a transcription activator as H3K9Me1, H3K9Me2, H3K27Me2 and H4K20Me1 are epigenetic repressive marks. Involved in cell cycle progression by being required to control G1-S transition. Acts as a coactivator of rDNA transcription, by activating polymerase I (pol I) mediated transcription of rRNA genes. Required for brain development, probably by regulating expression of neuron-specific genes. Only has activity toward H4K20Me1 when nucleosome is used as a substrate and when not histone octamer is used as substrate. May also have weak activity toward dimethylated H3 'Lys-36' (H3K36Me2), however, the relevance of this result remains unsure in vivo. Specifically binds trimethylated 'Lys-4' of histone H3 (H3K4me3), affecting histone demethylase specificity: has weak activity toward H3K9me2 in absence of H3K4me3, while it has high activity toward H3K9me2 when binding H3K4me3.
関連疾患	Defects in PHF8 are the cause of mental retardation syndromic X-linked Siderius type (MRXSSD) [MIM:300263]. A disorder characterized by mild to borderline mental retardation with or without cleft lip/cleft palate.
配列類似性	Belongs to the JHDM1 histone demethylase family. JHDM1D subfamily. Contains 1 JmjC domain. Contains 1 PHD-type zinc finger.
ドメイン	The PHD-type zinc finger mediates the binding to H3K4me3. Binding to H3K4me3 promotes its access to H3K9me2. The linker region is a critical determinant of demethylase specificity. It enables the active site of JmjC to reach the target H3K9me2 when the PHD-type zinc finger binds to H3K4me3.
翻訳後修飾	Phosphorylation at Ser-69 and Ser-120 are required for dissociation from chromatin and accumulation of H4K20Me1 levels during prophase.
細胞内局在	Nucleus. Nucleus > nucleolus. Recruited to H3K4me3 sites on chromatin during interphase. Dissociates from chromatin when cells enter mitosis.

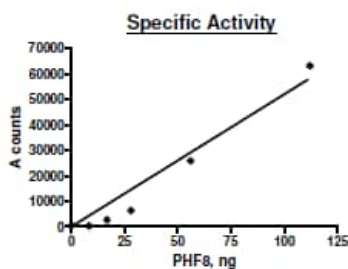
## 画像

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SDS-PAGE analysis of 2 µg ab271713.

SDS-PAGE - Recombinant human PHF8 protein  
(Active) (ab271713)



Specific activity of ab271713 was 0.013 pmol/min/µg.

Functional Studies - Recombinant human PHF8  
protein (Active) (ab271713)

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

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