


## Product datasheet

# Anti-KDM4A / JHDM3A / JMJD2A antibody [3559D5a] ab54388

### 画像数 1

#### 製品の概要

製品名	Anti-KDM4A / JHDM3A / JMJD2A antibody [3559D5a]
製品の詳細	Mouse monoclonal [3559D5a] to KDM4A / JHDM3A / JMJD2A
アプリケーション	適用あり: WB, Dot blot
種交差性	交差種: Recombinant fragment 交差が予測される動物種: Human 
免疫原	Recombinant fragment
特記事項	ab54388 was filtered through a 0.22 µm membrane.

#### 製品の特性

製品の状態	Liquid
保存方法	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid freeze / thaw cycles.
バッファー	Preservative: 0.05% Sodium Azide Constituents: 1% BSA, PBS, pH 7.4
精製度	Protein G purified
ポリ/モノ	モノクローナル
クローン名	3559D5a
アイソタイプ	IgG2a

#### アプリケーション

Our [Abpromise guarantee](#) covers the use of **ab54388** 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	Abreviews	特記事項
WB		Use at an assay dependent dilution. Detects a band of approximately 60 kDa (predicted molecular weight: 121 kDa).
Dot blot		Use at an assay dependent dilution.

## ターゲット情報

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機能	<p>Histone demethylase that specifically demethylates 'Lys-9' and 'Lys-36' residues of histone H3, thereby playing a central role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27' nor H4 'Lys-20'. Demethylates trimethylated H3 'Lys-9' and H3 'Lys-36' residue, while it has no activity on mono- and dimethylated residues. Demethylation of Lys residue generates formaldehyde and succinate. Participates in transcriptional repression of ASCL2 and E2F-responsive promoters via the recruitment of histone deacetylases and NCOR1, respectively. Isoform 2: Crucial for muscle differentiation, promotes transcriptional activation of the Myog gene by directing the removal of repressive chromatin marks at its promoter. Lacks the N-terminal demethylase domain.</p>
組織特異性	<p>Ubiquitous.</p>
配列類似性	<p>Belongs to the JHDM3 histone demethylase family. Contains 1 C2HC pre-PHD-type zinc finger. Contains 1 JmjC domain. Contains 1 JmjN domain. Contains 2 PHD-type zinc fingers. Contains 2 Tudor domains.</p>
ドメイン	<p>The 2 Tudor domains recognize and bind methylated histone H3 'Lys-4' residue (H3K4me). Double Tudor domain has an interdigitated structure and the unusual fold is required for its ability to bind methylated histone tails. Trimethylated H3 'Lys-4' (H3K4me3) is bound in a cage of 3 aromatic residues, 2 of which are from the Tudor domain 2, while the binding specificity is determined by side-chain interactions involving residues from the Tudor domain 1. The Tudor domains are also able to bind trimethylated histone H3 'Lys-9' (H3K9me3), di- and trimethylated H4 'Lys-20' (H4K20me2 and H4K20me3). Has high affinity for H4K20me2, blocking recruitment of proteins such as TP53BP1.</p>
翻訳後修飾	<p>Ubiquitinated by RNF8 and RNF168 following DNA damage, leading to its degradation. Degradation promotes accessibility of H4K20me2 mark for DNA repair protein TP53BP1, which is then recruited.</p>
細胞内局在	<p>Nucleus.</p>

## 画像

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**Predicted band size : 121 kDa**

**Observed band size : 60 kDa**

Western blot - JHDM3A / JMJD2A antibody  
[3559D5a] (ab54388)

**Please note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

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