

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
由来種	Mouse
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).

アプリケーション	Abreviews	特記事項
Dot blot		Use at an assay dependent dilution.

ターゲット情報

機能	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.
組織特異性	Ubiquitous.
配列類似性	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.
ドメイン	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.
翻訳後修飾	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.
細胞内局在	Nucleus.

画像



Western blot analysis of immunised recombinant protein fragment, using ab54388

Western blot - Anti-KDM4A / 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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