

Datasheet for ABIN5563977

## Recombinant anti-KDM4A antibody



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### 1 Image

#### Overview

Quantity:	100 µg
Target:	KDM4A
Reactivity:	Human
Host:	Mouse
Antibody Type:	Recombinant Antibody
Clonality:	Monoclonal
Conjugate:	This KDM4A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA

#### Product Details

Brand:	AbFlex®
Isotype:	IgG2a
Specificity:	Mouse
Characteristics:	<p>AbFlex™ JMJD2A antibody was expressed as full-length IgG with mouse immunoglobulin heavy and light chains (IgG2a isotype) in mammalian 293 cells. JMJD2A (KDM4A, JHDM3A) is a member of the Jmj-containing (Jumonji) class of histone demethylase proteins that are involved in the regulation of genome function through the removal of methyl groups from histones. JMJD2A specifically demethylates histone H3 dimethyl lysine 9 (H3K9me2), trimethyl lysine 9, (H3K9me3), dimethyl lysine 36 (H3K36me2) and trimethyl lysine 36 (H3K36me3). It also participates in transcriptional repression of ASCL2 and E2F-responsive promoters via the recruitment of histone deacetylases and NCOR1. JMJD2A contains JmjC and JmjN domains,</p>

## Product Details

two PHD fingers and two tudor domains.

Purification: Protein A Chromatography

## Target Details

Target: KDM4A

Alternative Name: JMJD2A ([KDM4A Products](#))

Molecular Weight: 130 kDa

Pathways: [Warburg Effect](#)

## Application Details

Application Notes: WB: 1 - 2 µg/mL dilution Bead-based ELISA: 40 - 600 ng/mL

Comment: AbFlex® Recombinant Antibodies defined antibodies for highly specific, reproducible performance.

AbFlex® antibodies are recombinant antibodies (rAbs) that have been generated using defined DNA sequences to produce highly specific, reproducible antibodies. The unique advantages of the AbFlex® antibody are its flexible labeling and purification options. Each AbFlex® antibody contains a Sortase recognition motif (LPXTG) to covalently add fluorophores, enzymatic substrates (HRP, AP...etc), peptides, DNA, drugs or other labels to the antibody in a directed and reproducible manner using our Sortag-IT Labeling Kits. Every antibody also contains a 6xHis tag, which can be used with nickel-based purification systems, and an avidin tag sequence for enzymatic biotin conjugation using the biotin ligase, BirA.

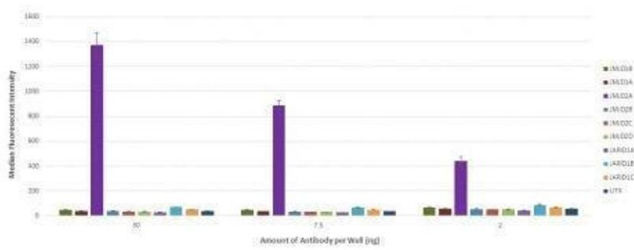
AbFlex® antibodies are specifically labeled at the end of the constant region of the heavy chain to avoid interference with antigen recognition and functionality. This is important as it ensures the labeling process maintains the integrity of the antibody so signal is not diminished as a result of non-functional antibodies. In contrast, commonly used chemical labeling methods add labels to the antibody in a random fashion. The randomness of this process has a high potential to block the antigen-binding site and render the antibody ineffective. Chemical labeling can also deposit labels on the Fc region of the antibody which has the potential to obstruct interactions with protein A.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	Purified IgG in 140 mM Hepes, pH 7.5, 70 mM NaCl, 35 mM NaOAc, 0.035 % sodium azide, 30 % glycerol
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	-20 °C

Images



Luminex Assay

**Image 1.** JMJD2A antibody (rAb) tested by Luminex bead-based specificity analysis. Luminex bead-based specificity analysis was used to confirm the specificity of JMJD2A antibody (rAb) antibody for JMJD2A. Various proteins were conjugated to MagPlex Luminex beads and incubated with various amounts of JMJD2A antibody (rAb). Protein-bound antibody was detected with anti-mouse IgG-Phycoerythrin and read in a Luminex instrument.