Recombinant JMJD2D Monoclonal Antibody

catalog number: **AN302018L**

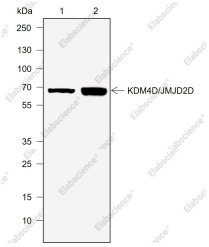
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human
Immunogen	Peptide. This information is proprietary to PTMab.
Host	Rabbit
Isotype	Rabbit IgG
Clone	C331639
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:1000

Data



Western Blot with JMJD2D Monoclonal Antibody at dilution of 1:1000. Lane 1: HeLa, Lane 2: PC-3

Observed-MW:65 kDa

Calculated-MW:59 kDa

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

Background

JMJD2D (KDM4D) is a histone demethylase located in the nucleus that specifically demethylates Lysine 9 of Histone H3, thereby playing a central role in the histone code. JMJD2D (KDM4D) demethylates both di- and trimethylated histone H3 Lys 9, while it has no activity on monomethylated residues. The demethylation reaction of the Lys residue generates formaldehyde and succinate as a by product. In addition, JMJD2D forms a complex with the ligand-bound form of the Androgen Receptor (AR) and, through this interaction, activates AR expression. Overexpression of AR is associated with prostate cancer, suggesting that, via its ability to upregulate AR, JMJD2D (KDM4D) may be involved in carcinogenesis.

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