



A Reliable Research Partner in Life Science and Medicine

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.

HostRabbitIsotypeIgG, κ CloneA738

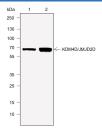
Purification Protein Apurified

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 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.