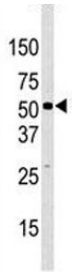
JMJD2D Antibody (KDM4D) (F40090)

Catalog No.	Formulation	Size
F40090-0.4ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.4 ml
F40090-0.08ML	In 1X PBS, pH 7.4, with 0.09% sodium azide	0.08 ml

Bulk quote request

Availability	1-3 business days
Species Reactivity	Human
Format	Purified
Clonality	Polyclonal (rabbit origin)
Isotype	Rabbit Ig
Purity	Purified
UniProt	Q6B0I6
Applications	Western Blot : 1:1000
Limitations	This JMJD2D antibody is available for research use only.



Western blot analysis of JMJD2D antibody and HeLa lysate

Description

Covalent modification of histones plays critical role in regulating chromatin structure and transcription. While most covalent histone modifications are reversible, only recently has it been established that methyl groups are subject to enzymatic removal from histones. A family of novel JmjC domain-containing histone demethylation (JHDM) enzymes have been identified that perform this specific function. Histone demethylation by JHDM proteins requires cofactors Fe(II) and alpha-ketoglutarate. Family members include JHDM1 (demethylating histone 3 at lysine 36), and JHDM2A as well as JMJD2CH3K9 (both of which demethylate histone 3 at lysine 9). Contributions of histone demethylase activity to tumor development, decreases in cell proliferation, and hormone-dependent transcriptional activation have been observed.

Application Notes

Titration of the JMJD2D antibody may be required due to differences in protocols and secondary/substrate sensitivity.

Immunogen

A portion of amino acids 484-516 from the human protein was used as the immunogen for this JMJD2D antibody.

Storage

Aliquot the JMJD2D antibody and store frozen at -20oC or colder. Avoid repeated freeze-thaw cycles.