

For Research Use Only

# JMJD3 Polyclonal antibody

Catalog Number: 55354-1-AP

7 Publications



## Basic Information

Catalog Number:

55354-1-AP

Size:

150ul, Concentration: 600 ug/ml by Nanodrop;

Source:

Rabbit

Isotype:

IgG

GenBank Accession Number:

NM\_001080424

GeneID (NCBI):

23135

UNIPROT ID:

O15054

Full Name:

jumonji domain containing 3, histone lysine demethylase

Calculated MW:

177 kDa

Observed MW:

177 kDa

Purification Method:

Antigen affinity purification

Recommended Dilutions:

WB: 1:500-1:2400

## Applications

Tested Applications:

WB, ELISA

Cited Applications:

WB

Species Specificity:

human

Cited Species:

human, mouse, rat

Positive Controls:

WB: A549 cells, HeLa cells

## Background Information

JMJD3, also known as KDM6B, is a 1643 amino acid protein, which belongs to the UTX family. JMJD3 is a Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code (PubMed:17825402, PubMed:17851529, ). JMJD3 demethylates trimethylated and dimethylated H3 'Lys-27', so it plays a central role in regulation of posterior development, by regulating HOX gene expression (PubMed:17851529). Histone demethylases are epigenetic actors with a crucial role in cancer by acting as suppressors of tumors or as oncogenes. JMJD3 and UTX (ubiquitously transcribed tetratricopeptide repeat, X chromosome) are transcription activators, being specific H3K27me3 demethylases. JMJD3 is involved in many cellular processes such as development, differentiation, senescence and aging by p16, p53 and RB pathways and finally inflammation. Depending on cancer type, JMJD3 expression is increased (prostate and breast cancers, melanoma, gliomas, renal cell carcinoma) or decreased (lung, liver, pancreatic, colon and colorectal cancers). This role in carcinogenesis has allowed the development of "epidrugs" to modulate JMJD3 expression (PMID: 29805743).

## Notable Publications

Author	Pubmed ID	Journal	Application
Zhen Xiao	30896884	Oncol Rep	WB
Lijie Tian	28587848	Gene	WB
Hong Chen	30516825	J Physiol	WB

## Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

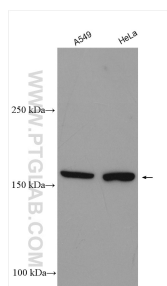
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E: proteintech@ptglab.com  
W: ptglab.com

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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 55354-1-AP (JMJD3 antibody) at dilution of 1:1200 incubated at room temperature for 1.5 hours.