

JHDM1a/FBXL11 Antibody (Center)
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1043c**Specification**

JHDM1a/FBXL11 Antibody (Center) - Product Information

Application	WB, IHC-P,E
Primary Accession	O9Y2K7
Other Accession	P59997
Reactivity	Human
Predicted	Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	132793
Antigen Region	500-527

JHDM1a/FBXL11 Antibody (Center) - Additional Information**Gene ID** 22992**Other Names**

Lysine-specific demethylase 2A, CXXC-type zinc finger protein 8, F-box and leucine-rich repeat protein 11, F-box protein FBL7, F-box protein Lilina, F-box/LRR-repeat protein 11, JmjC domain-containing histone demethylation protein 1A, [Histone-H3]-lysine-36 demethylase 1A, KDM2A, CXXC8, FBL7, FBXL11, JHDM1A, KIAA1004

Target/Specificity

This JHDM1a/FBXL11 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 500-527 amino acids from the Central region of human JHDM1a/FBXL11.

Dilution

WB~~1:1000

IHC-P~~1:10~50

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is prepared by Saturated Ammonium Sulfate (SAS) precipitation followed by dialysis against PBS.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

JHDM1a/FBXL11 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

JHDM1a/FBXL11 Antibody (Center) - Protein Information

Name KDM2A

Function Histone demethylase that specifically demethylates 'Lys-36' of histone H3, thereby playing a central role in histone code. Preferentially demethylates dimethylated H3 'Lys-36' residue while it has weak or no activity for mono- and tri-methylated H3 'Lys-36'. May also recognize and bind to some phosphorylated proteins and promote their ubiquitination and degradation. Required to maintain the heterochromatic state. Associates with centromeres and represses transcription of small non-coding RNAs that are encoded by the clusters of satellite repeats at the centromere. Required to sustain centromeric integrity and genomic stability, particularly during mitosis. Regulates circadian gene expression by repressing the transcriptional activator activity of CLOCK-BMAL1 heterodimer and RORA in a catalytically- independent manner (PubMed:[26037310](#)).

Cellular Location

Nucleus, nucleoplasm. Chromosome Note=Punctate expression throughout the nucleoplasm and enriched in the perinucleolar region (PubMed:19001877, PubMed:20417597). Specifically nucleates at CpG islands where it's presence results in chromatin depleted in H3K36me2 (PubMed:19001877, PubMed:20417597)

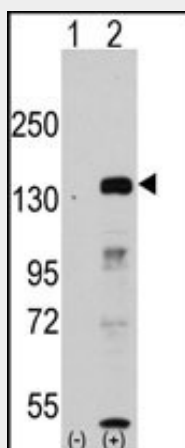
Tissue Location

Widely expressed, with highest levels in brain, testis and ovary, followed by lung.

JHDM1a/FBXL11 Antibody (Center) - Protocols

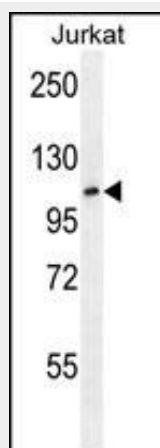
Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

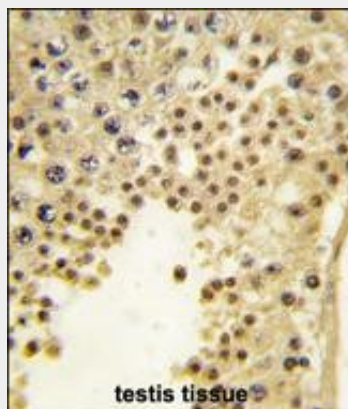
JHDM1a/FBXL11 Antibody (Center) - Images

Western blot analysis of JHDM1a/FBXL11 (arrow) using rabbit polyclonal JHDM1a/FBXL11 Antibody (Center)(Cat.#AP1043c).293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently

transfected with the JHDM1a/FBXL11 gene (Lane 2) (Origene Technologies).



JHDM1a/FBXL11 Antibody (Center) (Cat.#AP1043c) western blot analysis in Jurkat cell line lysates (35ug/lane). This demonstrates the JHDM1a/FBXL11 antibody detected the JHDM1a/FBXL11 protein (arrow).



Formalin-fixed and paraffin-embedded human testis tissue reacted with JHDM1a/FBXL11 antibody (Center) (Cat.#AP1043c), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

JHDM1a/FBXL11 Antibody (Center) - Background

JHDM1a/FBXL11 is a member of the F-box protein family which is characterized by an approximately 40 amino acid motif, the F-box. The F-box proteins constitute one of the four subunits of ubiquitin protein ligase complex called SCFs (SKP1-cullin-F-box), which function in phosphorylation-dependent ubiquitination. The F-box proteins are divided into 3 classes: Fbws containing WD-40 domains, Fbls containing leucine-rich repeats, and Fbxs containing either different protein-protein interaction modules or no recognizable motifs. The protein encoded by this gene belongs to the Fbls class and, in addition to an F-box, contains at least 6 highly degenerated leucine-rich repeats.

JHDM1a/FBXL11 Antibody (Center) - References

Tsukada, Y., Nature 439 (7078), 811-816 (2006)
Andersen, J.S., Nature 433 (7021), 77-83 (2005)