10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

JHDM1a/FBXL11 Antibody (C-term)

Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP1043b

Product Information

Application	WB, E
Primary Accession	Q9Y2K7
Other Accession	P59997
Reactivity	Human
Predicted	Mouse, Rat, Bovine, Canine, Rabbit
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Clone Names	RB14305
Calculated MW	132793
Antigen Region	867-896

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 867-896 amino acids from the C-terminal region of human JHDM1a/FBXL11.
Dilution	WB~~1:1000 E~~Use at an assay dependent concentration.
Format	Purified polyclonal antibody supplied in PBS with 0.05% (V/V) Proclin 300. 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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

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 its 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.

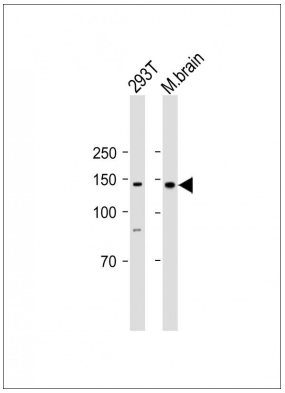
Background

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. JHDM1a/FBXL11 belongs to the Fbls class and, in addition to an F-box, contains at least 6 highly degenerated leucine-rich repeats.

References

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

Images



All lanes: Anti-JHDM1a/FBXL11 Antibody (C-term) at 1:1000 dilution Lane 1: 293T whole cell lysate Lane 2: Mouse brain lysate Lysates/proteins at 20 µg per lane. Secondary: Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ASP1615) at 1/15000 dilution. Observed band size: 150 KDa Blocking/Dilution buffer: 5% NFDM/TBST.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.