10320 Camino Santa Fe, Suite G
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JHDM1D Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP5116c

Specification

JHDM1D Antibody (Center) - Product Information

Application	**WB, IHC-P, FC,E**
Primary Accession	Q6ZMT4
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Antigen Region	**290-316**

JHDM1D Antibody (Center) - Additional Information

Gene ID 80853

Other Names
Lysine-specific demethylase 7A, 11411-, JmjC domain-containing histone demethylation protein 1D, Lysine-specific demethylase 7, KDM7A, JHDM1D, KDM7, KIAA1718

Target/Specificity
This JHDM1D antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 290-316 amino acids from the Central region of human JHDM1D.

Dilution
WB~~1:1000
IHC-P~~1:100
FC~~1:10~50

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

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
JHDM1D Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

JHDM1D Antibody (Center) - Protein Information

Name KDM7A

Synonyms JHDM1D, KDM7, KIAA1718

Function Histone demethylase required for brain development. Specifically demethylates dimethylated 'Lys-9', 'Lys-27' and 'Lys-36' (H3K9me2, H3K27me2, H3K36me2, respectively) of histone H3 and monomethylated histone H4 'Lys-20' residue (H4K20Me1), thereby playing a central role in histone code (PubMed:20023638, PubMed:20622853). Specifically binds trimethylated 'Lys-4' of histone H3 (H3K4me3), affecting histone demethylase specificity: in presence of H3K4me3, it has no demethylase activity toward H3K9me2, while it has high activity toward H3K27me2. Demethylates H3K9me2 in absence of H3K4me3 (PubMed:20023638). Has activity toward H4K20Me1 only when nucleosome is used as a substrate and when not histone octamer is used as substrate (PubMed:20622853).

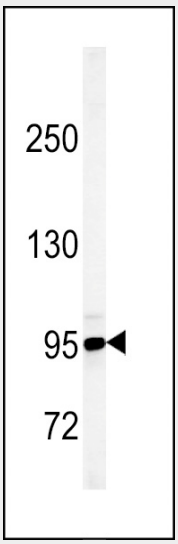
Cellular Location
Nucleus.

JHDM1D Antibody (Center) - Protocols

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

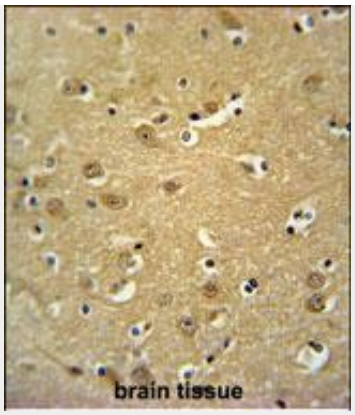
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

JHDM1D Antibody (Center) - Images

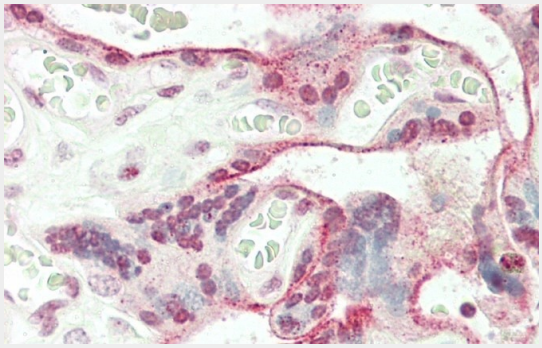


Western blot analysis of JHDM1D Antibody (Center) (Cat. #AP5116c) in 293 cell line lysates (35ug/lane).JHDM1D (arrow) was detected using the purified Pab.

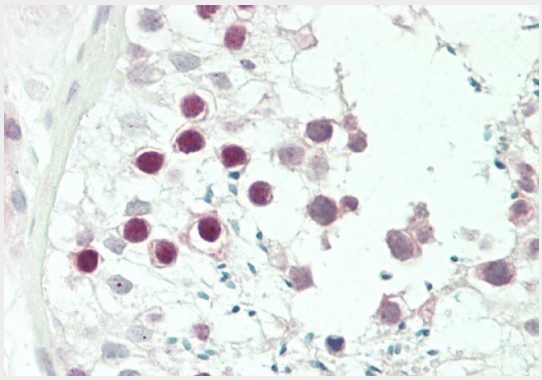
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JHDM1D Antibody (Center) (Cat. #AP5116c) immunohistochemistry analysis in formalin fixed and paraffin embedded human brain tissue followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the JHDM1D Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.

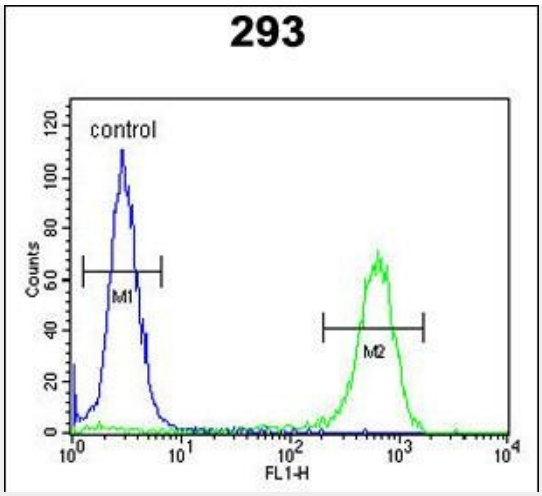


Formalin-fixed and paraffin-embedded H.placenta tissue reacted with JHDM1D Antibody (Center) (Cat#AP5116c).



Formalin-fixed and paraffin-embedded H.testis tissue reacted with JHDM1D Antibody (Center) (Cat#AP5116c).

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JHDM1D Antibody (Center) (Cat. #AP5116c) flow cytometric analysis of 293 cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.

JHDM1D Antibody (Center) - Background

JHDM1D histone demethylase that specifically demethylates dimethylated 'Lys-9' and 'Lys-27' (H3K9me2 and H3K27me2, respectively) of histone H3, thereby playing a central role in histone code. This specifically binds trimethylated 'Lys-4' of histone H3 (H3K4me3), affecting histone demethylase specificity: in presence of H3K4me3, it has no demethylase activity toward H3K9me2, while it has high activity toward H3K27me2. This demethylates H3K9me2 in absence of H3K4me3.