

Rabbit anti-Human JHDM1D Polyclonal Antibody | anti-KDM7A antibody

JHDM1D Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284517	Rabbit	Human	Flow Cytometry, Functional Assay, Immunohistochemistry, ELISA, Western Blot

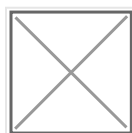
PRODUCT SYNONYMS

JHDM1D; Polyclonal Antibody; JHDM1D Antibody (Center); Lysine-specific demethylase 7A; 11411-; JmjC domain-containing histone demethylation protein 1D; Lysine-specific demethylase 7; KDM7A; KDM7; KIAA1718; anti-KDM7A antibody

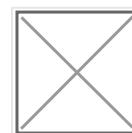
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	290-316
Sequence Length	941
Applicable Applications for anti-KDM7A antibody	FCM/FACS (Flow Cytometry), IHC (Immunohistochemistry), ELISA, WB (Western Blot)
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
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



FCM/FACS (Flow Cytometry)
JHDM1D Antibody (Center) 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.

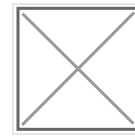


IHC (Immunohistochemistry)
Formalin-fixed and paraffin-embedded H.testis tissue reacted with JHDM1D Antibody (Center)



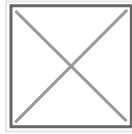
IHC (Immunohistochemistry)

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



IHC (Immunohistochemistry)

JHDM1D Antibody (Center) 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.



WB (Western Blot)

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

ADDITIONAL INFORMATION

Related Product Information for anti-KDM7A antibody

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.

NCBI AND UNIPROT INFORMATION

NCBI GI #	90093355
NCBI GeneID	80853
NCBI Accession #	NP_085150.1
NCBI GenBank Nucleotide #	NM_030647.1
UniProt Accession #	Q6ZMT4; Q6MZL8; Q9C0E5; A4D1S9; C9JJH9; C9JQU2
NCBI Official Full Name	lysine-specific demethylase 7A
NCBI Official Synonym Full Names	lysine (K)-specific demethylase 7A
NCBI Official Symbol	KDM7A
NCBI Official Synonym Symbols	JHDM1D
NCBI Protein Information	lysine-specific demethylase 7A
UniProt Protein Name	Lysine-specific demethylase 7A
UniProt Gene Name	KDM7A
UniProt Synonym Gene Names	JHDM1D; KDM7; KIAA1718
UniProt Entry Name	KDM7A_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/jhdm1d-antibody-flow-cytometry-immunohistochemistry-western-blot-elisa/284517>