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

JHDM1D Antibody (Center) Blocking Peptide

Synthetic peptide
Catalog # BP5116c

Specification

JHDM1D Antibody (Center) Blocking Peptide - Product Information

Primary Accession Q6ZMT4

JHDM1D Antibody (Center) Blocking Peptide - 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

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

JHDM1D Antibody (Center) Blocking Peptide - 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.

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JHDM1D Antibody (Center) Blocking Peptide - Protocols

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

- Blocking Peptides

JHDM1D Antibody (Center) Blocking Peptide - Images

JHDM1D Antibody (Center) Blocking Peptide - 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.