

**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](http://www.uniprot.org/citations/20023638), PubMed: [20622853](http://www.uniprot.org/citations/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](http://www.uniprot.org/citations/20023638)). Has activity toward H4K20Me1 only when nucleosome is used as a substrate and when not histone octamer is used as substrate (PubMed: [20622853](http://www.uniprot.org/citations/20622853)).

**Cellular Location**

Nucleus.

## **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.