

**JMJD7 Antibody (C-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP9020b****Specification**

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**JMJD7 Antibody (C-term) Blocking Peptide - Product Information**Primary Accession [POC870](#)**JMJD7 Antibody (C-term) Blocking Peptide - Additional Information****Gene ID** 100137047**Other Names**

JmjC domain-containing protein 7, Jumonji domain-containing protein 7, JMJD7

**Target/Specificity**

The synthetic peptide sequence used to generate the antibody [AP9020b](/products/AP9020b) was selected from the C-term region of human JMJD7. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

**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.

**JMJD7 Antibody (C-term) Blocking Peptide - Protein Information****Name** JMJD7 {ECO:0000303|PubMed:28847961, ECO:0000312|HGNC:HGNC:34397}**Function**

Bifunctional enzyme that acts both as an endopeptidase and 2-oxoglutarate-dependent monooxygenase (PubMed: [28847961](http://www.uniprot.org/citations/28847961), PubMed: [29915238](http://www.uniprot.org/citations/29915238)). Endopeptidase that cleaves histones N-terminal tails at the carboxyl side of methylated arginine or lysine residues, to generate 'tailless nucleosomes', which may trigger transcription elongation (PubMed: [28847961](http://www.uniprot.org/citations/28847961)). Preferentially recognizes and cleaves monomethylated and dimethylated arginine residues of histones H2, H3 and H4 (PubMed: [28847961](http://www.uniprot.org/citations/28847961)). After initial cleavage, continues to digest histones tails via its aminopeptidase activity (PubMed: [28847961](http://www.uniprot.org/citations/28847961)). Additionally, may play a role in protein biosynthesis by

modifying the translation machinery (PubMed:<a href="http://www.uniprot.org/citations/29915238" target="\_blank">29915238</a>). Acts as a Fe(2+) and 2- oxoglutarate-dependent monooxygenase, catalyzing (S)-stereospecific hydroxylation at C-3 of 'Lys-22' of DRG1 and 'Lys-21' of DRG2 translation factors (TRAFAC), promoting their interaction with ribonucleic acids (RNA) (PubMed:<a href="http://www.uniprot.org/citations/29915238" target="\_blank">29915238</a>).

**Cellular Location**

Nucleus. Cytoplasm

**JMJD7 Antibody (C-term) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**JMJD7 Antibody (C-term) Blocking Peptide - Images****JMJD7 Antibody (C-term) Blocking Peptide - Background**

JMJD7 is a highly conserved protein with a JmjC domain, which are part of the cupin metalloenzyme superfamily. JmjC proteins may function as 2-oxoglutarate-Fe(II)-dependent dioxygenases. Most tissues also express read-through

**JMJD7 Antibody (C-term) Blocking Peptide - References**

Song,C., et.al., J. Biol. Chem. 274 (24), 17063-17067 (1999)