

JMJD7 Polyclonal Antibody
Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP59267**Specification****JMJD7 Polyclonal Antibody - Product Information**

Application	WB, IHC-P, IHC-F, IF, ICC
Primary Accession	POC870
Reactivity	Rat, Dog, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	35932

JMJD7 Polyclonal Antibody - Additional Information**Gene ID** 100137047**Other Names**

Bifunctional peptidase and (3S)-lysyl hydroxylase JMJD7, 1.14.11.63, 3.4.-.-, JmjC domain-containing protein 7, Jumonji domain-containing protein 7, L-lysine (3S)-hydroxylase JMJD7, JMJD7 {ECO:0000303|PubMed:28847961, ECO:0000312|HGNC:HGNC:34397}

Format

0.01M TBS(pH7.4), 0.09% (W/V) sodium azide and 50% Glyce

Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

JMJD7 Polyclonal Antibody - 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, PubMed: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). Preferentially recognizes and cleaves monomethylated and dimethylated arginine residues of histones H2, H3 and H4 (PubMed:28847961). After initial cleavage, continues to digest histones tails via its aminopeptidase activity (PubMed:28847961). Additionally, may play a role in protein biosynthesis by modifying the translation machinery (PubMed:29915238). 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:29915238).

Cellular Location

Nucleus. Cytoplasm

JMJD7 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

JMJD7 Polyclonal Antibody - Images