

JMJD2A Tudor Domains (888-1023 aa) (GST-tagged), Human recombinant protein
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Catalog # PBV11254r

Specification

**JMJD2A Tudor Domains (888-1023 aa) (GST-tagged), Human recombinant protein -
Product info**

Primary Accession [O75164](#)
Calculated MW **42.2 kDa (888-1023 aa, NT GST Tag) kDa**

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Additional Info**

Gene ID **9682**
Gene Symbol **KDM4A**
Other Names
JHDM3A; Jumonji Domain Containing 2A; KDM4A

Gene Source **Human**
Source **E. coli**
Assay&Purity **SDS-PAGE; ≥90%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Target/Specificity
JMJD2A

Format
Liquid

Storage
-80°C; 50 mM Tris-HCl, pH 8.0, 150 mM sodium chloride, and 20% glycerol.

**JMJD2A Tudor Domains (888-1023 aa) (GST-tagged), Human recombinant protein -
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](#)

JMJD2A Tudor Domains (888-1023 aa) (GST-tagged), Human recombinant protein - Images

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Background

Tudor domains are small protein structural motifs of about ~50 amino acids related to the “royal family” of methyl readers, which also includes chromo, MBT, PWWP, and Agenet-like domains. Tudor domains occur either alone, in tandem, or with other domains and are found in many proteins that are involved in RNA metabolism, germ cell development, transposon silencing, DNA damage response, histone modification, and chromatin remodeling. The tudor domains recognize symmetric methylated arginine or methylated lysine residues. JMJD2A catalyzes the demethylation of trimethylated histone H3 at lysine residues 9 and 36 (H3K9me3 and H3K36me3). However, the tudor domain of this protein has been shown to bind histone H3K4me, H3K9me3, and H3K20me_{2/3}. Like other JmjC protein hydroxylase family members, JMJD2A is an α -ketoglutarate-dependent Fe (II) oxygenase. This product contains the tandem tudor domains of JMJD2A.

JMJD2A Tudor Domains (888-1023 aa) (GST-tagged), Human recombinant protein - References

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Gregory S.G., et al. Nature 441:315-321(2006).
Gray S.G., et al. J. Biol. Chem. 280:28507-28518(2005).
Zhang D., et al. Mol. Cell. Biol. 25:6404-6414(2005).
Whetstine J.R., et al. Cell 125:467-481(2006).