

**Phospho-JMJD2B(S622) Antibody**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP3723a**

**Specification**

---

**Phospho-JMJD2B(S622) Antibody - Product Information**

|                   |                        |
|-------------------|------------------------|
| Application       | DB,E                   |
| Primary Accession | <a href="#">O94953</a> |
| Other Accession   | <a href="#">O91VY5</a> |
| Reactivity        | Human                  |
| Predicted         | Mouse                  |
| Host              | Rabbit                 |
| Clonality         | Polyclonal             |
| Isotype           | Rabbit IgG             |

**Phospho-JMJD2B(S622) Antibody - Additional Information**

**Gene ID** 23030

**Other Names**

Lysine-specific demethylase 4B, 11411-, JmjC domain-containing histone demethylation protein 3B, Jumonji domain-containing protein 2B, KDM4B, JHDM3B, JMJD2B, KIAA0876

**Target/Specificity**

This JMJD2B Antibody is generated from rabbits immunized with a KLH conjugated synthetic phosphopeptide corresponding to amino acid residues surrounding S622 of human JMJD2B.

**Dilution**

DB~~1:500

**Format**

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

**Storage**

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

**Precautions**

Phospho-JMJD2B(S622) Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

**Phospho-JMJD2B(S622) Antibody - Protein Information**

**Name** KDM4B

**Synonyms** JHDM3B, JMJD2B, KIAA0876

**Function** Histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a role in histone code. Does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. Only able to demethylate trimethylated H3 'Lys-9', with a weaker activity than KDM4A, KDM4C and KDM4D. Demethylation of Lys residue generates formaldehyde and succinate (PubMed:[16603238](#), PubMed:[28262558](#)). Plays a critical role in the development of the central nervous system (CNS).

#### Cellular Location

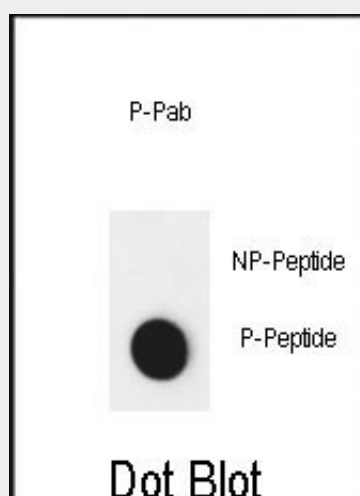
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00537, ECO:0000269|PubMed:15927959}

### Phospho-JMJD2B(S622) 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](#)

### Phospho-JMJD2B(S622) Antibody - Images



Dot blot analysis of anti-Phospho-JMJD2B-pS622 Phospho-specific Pab (Cat. #AP3723a) on nitrocellulose membrane. 50ng of Phospho-peptide or Non Phospho-peptide per dot were adsorbed. Antibody working concentrations are 0.5ug per ml.

### Phospho-JMJD2B(S622) Antibody - Background

JMJD2B is histone demethylase that specifically demethylates 'Lys-9' of histone H3, thereby playing a role in histone code. This protein does not demethylate histone H3 'Lys-4', H3 'Lys-27', H3 'Lys-36' nor H4 'Lys-20'. It is only able to demethylate trimethylated H3 'Lys-9', with a weaker activity than KDM4A, KDM4C and KDM4D. It is demethylation of Lys residue generates formaldehyde and succinate.

### Phospho-JMJD2B(S622) Antibody - References

Beyer, S., et al. J. Biol. Chem. 283(52):36542-36552(2008)  
Pollard, P.J., et al. Biochem. J. 416(3):387-394(2008)  
Katoh, Y., et al. Int. J. Mol. Med. 20(2):269-273(2007)