

Datasheet: AHP3078

**BATCH NUMBER 160813**

<b>Description:</b>	RABBIT ANTI HUMAN KDM4B
<b>Specificity:</b>	KDM4B
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 ml

## Product Details

### Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit [www.bio-rad-antibodies.com/protocols](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Immunoprecipitation	▪			10 µl per IP
Western Blotting	▪			1/500 - 1/1000
Immunofluorescence	▪			1/2000

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

**Target Species** Human

**Product Form** Purified IgG - liquid

**Antiserum Preparation** Antiserum to human KDM48 was raised by repeated immunization of rabbits with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography.

**Buffer Solution** Phosphate buffered saline

**Preservative** 0.035% Sodium Azide (NaN<sub>3</sub>)  
**Stabilisers** 30% Glycerol

**Carrier Free** Yes

**Immunogen** A peptide within the C-terminal region of human KDM4B

**External Database  
Links**

**UniProt:**

[O94953](#)   [Related reagents](#)

**Entrez Gene:**

[23030](#)   KDM4B   [Related reagents](#)

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**Synonyms**

JHDM3B, JMJD2B, KIAA0876

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**Specificity**

**Rabbit anti Human KDM4B antibody** recognizes lysine-specific demethylase 4B, also known as JMJD2B.

KDM4B is a member of the alpha-ketoglutarate-dependent hydroxylase superfamily of enzymes. Alpha-ketoglutarate-dependent hydroxylases catalyse a wide range of reactions, including hydroxylation, demethylation and desaturation ([Flashman and Schofield, 2007](#)) ([Hausinger, 2004](#)). Studies have shown that KDM4B functions as a histone demethylase and is involved in the regulation of endothelial-to-mesenchymal transition ([Glaser et al. 2020](#)). KDM4B also forms a complex with MLL2 and acts as a co-factor of ERa-mediated transcription ([Kawazu et al. 2011](#)).

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**Storage**

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended. Should this product contain a precipitate we recommend microcentrifugation before use.

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**Guarantee**

12 months from date of despatch

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10049 available at:  
<https://www.bio-rad-antibodies.com/SDS/AHP3078>  
10049

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**Regulatory**

For research purposes only

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## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...)   [FITC](#)

Goat Anti Rabbit IgG (Fc) (STAR121...)   [Biotin](#), [FITC](#), [HRP](#)

Sheep Anti Rabbit IgG (STAR35...)   [RPE](#)

Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)

**North & South  
America**   Tel: +1 800 265 7376  
Fax: +1 919 878 3751

Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

**Worldwide**

Tel: +44 (0)1865 852 700  
Fax: +44 (0)1865 852 739

Email: [antibody\\_sales\\_uk@bio-rad.com](mailto:antibody_sales_uk@bio-rad.com)

**Europe**

Tel: +49 (0) 89 8090 95 21  
Fax: +49 (0) 89 8090 95 50

Email: [antibody\\_sales\\_de@bio-rad.com](mailto:antibody_sales_de@bio-rad.com)

To find a batch/lot specific datasheet for this product, please use our online search tool at: [bio-rad-antibodies.com/datasheets](https://www.bio-rad-antibodies.com/datasheets)

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