

## Datasheet: VMA00966

<b>Description:</b>	MOUSE ANTI KAT7
<b>Specificity:</b>	KAT7
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	EF01/2H10
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	100 µl

## 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
Western Blotting	▪			1/2000

**The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range.** Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse, Rat

**N.B.** Antibody reactivity and working conditions may vary between species. Cross reactivity is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information.

### Product Form

Purified IgG - Liquid

### Preparation

Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide

<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	<i>E. coli</i> -derived recombinant protein of amino acids 1-331 of human KAT7
<b>External Database Links</b>	<p><b>UniProt:</b>  <a href="#">O95251</a>    <a href="#">Related reagents</a></p> <p><b>Entrez Gene:</b>  <a href="#">11143</a> MYST2    <a href="#">Related reagents</a></p>
<b>Synonyms</b>	HBO1, HBOa
<b>Fusion Partners</b>	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
<b>Specificity</b>	<b>Mouse anti KAT7 antibody</b> recognizes histone acetyltransferase KAT7, also known as HBO1, MYST2. KAT7 is a member of the MYST-type histone acetyltransferases and is required for acetylation of histones H3 and H4 ( <a href="#">Izumikawa et al. 2019</a> ). This acetylation function allows KAT7 to play a role in regulation of transcription, DNA replication, and cell survival. KAT7 has been found to have cell-specific functions and can perform cell-specific gene expression. These cell-specific roles may be explained by differences in KAT7 complexes between cells ( <a href="#">Yan et al. 2018</a> ). KAT7 is highly expressed in several human cancers, including primary ovarian cancer, breast adenocarcinoma and testicular germ cell tumors. However, KAT7 has also been found to have anti-cancer effects in other cell types. For example, KAT7 expression is suppressed in acute myeloid leukemia ( <a href="#">Quintela et al. 2019</a> ).
<b>Western Blotting</b>	Mouse anti KAT7 detects a band of approximately 71 kDa in MCF-7 cell lysates
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles
<b>Guarantee</b>	12 months from date of despatch
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00966">https://www.bio-rad-antibodies.com/SDS/VMA00966</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only

## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
----------------------------------	---	------------------	---	---------------	---

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

'M429298:240410'

**Printed on 10 Apr 2024**

---

© 2024 Bio-Rad Laboratories Inc | [Legal](#) | [Imprint](#)