

Datasheet: VMA00966

BATCH NUMBER 100005827

Description:	MOUSE ANTI KAT7
Specificity:	KAT7
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	EF01/2H10
Isotype:	IgG1
Quantity:	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.

	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

0.09% Sodium Azide

Stabilisers

Approx. Protein Concentrations IgG concentration 1.0 mg/ml

Immunogen *E. coli*-derived recombinant protein of amino acids 1-331 of human KAT7

External Database Links

UniProt:

[O95251](#) [Related reagents](#)

Entrez Gene:

[11143](#) MYST2 [Related reagents](#)

Synonyms HBO1, HBOa

Fusion Partners Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line

Specificity **Mouse anti KAT7 antibody** 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 ([Izumikawa et al. 2019](#)). 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 ([Yan et al. 2018](#)). 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 ([Quintela et al. 2019](#)).

Western Blotting Mouse anti KAT7 detects a band of approximately 71 kDa in MCF-7 cell lysates

Storage Store undiluted at -20°C, avoiding repeated freeze thaw cycles

Guarantee 12 months from date of despatch

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories

Health And Safety Information Material Safety Datasheet documentation #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00966>
Antibody (10040)

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

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

North & South Tel: +1 800 265 7376

Worldwide Tel: +44 (0)1865 852 700

Europe Tel: +49 (0) 89 8090 95 21

America Fax: +1 919 878 3751

Fax: +44 (0)1865 852 739

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_us@bio-rad.com

Email: antibody_sales_uk@bio-rad.com

Email: antibody_sales_de@bio-rad.com

batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M390088:210823'

Printed on 10 Apr 2024

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