

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](#)

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

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