Datasheet: VMA00966

BATCH NUMBER 64682963

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
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Product inquiries: www.bio-rad-antibodies.com/technical-support

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

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Printed on 09 Jul 2025