Datasheet: VMA00733

Description:	MOUSE ANTI HISTONE DEACETYLASE 3
Specificity:	HISTONE DEACETYLASE 3
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	E04/3H10
Isotype:	IgG2b
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
Flow Cytometry	▪			
Western Blotting	▪			1/1000 - 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 1-428 of human histone deacetylase 3
External Database Links	**UniProt:** O15379 Related reagents **Entrez Gene:** 8841 HDAC3 Related reagents
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	**Mouse anti Human histone deacetylase 3 antibody** recognizes histone deacetylase 3 (HDAC3), also known as SMAP45. HDAC3 is a ubiquitously-expressed histone deacetylase, mostly located in the nucleus within transcriptional coregulator complexes (Song et al. 2019). By inhibiting the activity of multiple proteins, HDAC3 plays important roles in physiological homeostasis in many tissues (Kwon et al. 2018). In addition to its enzymatic role in catalysis of deacetylation reactions, HDAC3 can regulate chromatin accessibility and corepressor complex dynamics by acting as a chaperone or a scaffold anchorage protein, instead of an enzyme (Song et al. 2019). HDAC3 contributes to inflammation, cancer, and degenerative neurological diseases, and inhibitors of HDAC3 have been suggested as potential treatments (Cao et al. 2018). HDAC3 overexpression is associated with poor prognosis in a range of cancer types, however, the role of HDAC3 in cancer is tissue-specific. HDAC3 can also regulate responses to anticancer drugs (Kwon et al. 2018).
Western Blotting	Mouse anti histone deacetylase 3 detects a band of approximately 47 kDa in HeLa 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/VMA00733 Antibody (10040)
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

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

Recommended Negative Controls

MOUSE IgG2b NEGATIVE CONTROL (MCA691)

North & South America	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: 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	**Europe**	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: 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

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