Datasheet: VMA00961

Description:	MOUSE ANTI SIRT6
Specificity:	SIRT6
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Clone:	EF01/2A11
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	▪			1/1000

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

Approx. Protein Concentrations	IgG concentration 1.0 mg/ml
Immunogen	*E. coli*-derived recombinant protein of amino acids 1-353 of human SIRT6
External Database Links	**UniProt:** Q8N6T7 Related reagents **Entrez Gene:** 51548 SIRT6 Related reagents
Synonyms	SIR2L6
Fusion Partners	Spleen cells from immunised BALB/c mice were fused with cells of the mouse SP2/0 myeloma cell line
Specificity	**Mouse anti SIRT6 antibody** recognizes NAD-dependent protein deacetylase sirtuin-6, also known as regulatory protein SIR2 homolog 6. SIRT6 is a NAD+-dependent deacetylase which belongs to the sirtuin family. As a histone deacetylase, SIRT6 targets specific sites on histone H3 and regulates chromatin compaction, transcriptional repression and DNA damage responses. The protein has multiple targets, and through its deacetylase activity, plays roles in chromatin signaling and genome maintenance (Tasselli et al. 2016). SIRT6 can be found in the nucleus and in the cytoplasm, and localizes to cytoplasmic stress granules in response to stress (D'Onofrio et al. 2018). SIRT6 protects against aging-associated pathologies such as metabolic disease and cancer (Tasselli et al. 2016). SIRT6 appears to have a protective role against obesity and diabetes, with deficiency of SIRT6 leading to liver steatosis, diet-induced obesity and diabetes (Kuang et al. 2018).
Western Blotting	Mouse anti SIRT6 detects a band of approximately 40 kDa in Jurkat 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/VMA00961 Antibody (10040)
Regulatory	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)

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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