

Datasheet: VMA00960

**BATCH NUMBER 100005723**

<b>Description:</b>	MOUSE ANTI SIRT2
<b>Specificity:</b>	SIRT2
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	AB01/1D10
<b>Isotype:</b>	IgG2b
<b>Quantity:</b>	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](http://www.bio-rad-antibodies.com/protocols).

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/500 - 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.

<b>Target Species</b>	Human
<b>Species Cross Reactivity</b>	Reacts with: Mouse, Rat <b>N.B.</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.
<b>Product Form</b>	Purified IgG - Liquid
<b>Preparation</b>	Mouse monoclonal antibody affinity purified on Protein G from tissue culture supernatant
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	0.09% Sodium Azide

## Stabilisers

### Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

### Immunogen

*E. coli*-derived recombinant protein of amino acids 1-389 of human SIRT2

### External Database Links

#### UniProt:

[Q8IXJ6](#)

[Related reagents](#)

#### Entrez Gene:

[22933](#)

SIRT2

[Related reagents](#)

### Synonyms

SIR2L, SIR2L2

### Fusion Partners

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

### Specificity

**Mouse anti SIRT2 antibody** recognizes NAD-dependent protein deacetylase sirtuin-2, also known as regulatory protein SIR2 homolog 2. SIRT2 is a NAD<sup>+</sup>-dependent deacetylase which belongs to the sirtuin family and plays a wide range of roles in the nervous system, regulation of mitosis, genome integrity, cell differentiation, infection, inflammation, and in many other processes ([Wang et al. 2019](#)). SIRT2 also has diverse roles in metabolism. Consistent with its multiple roles, SIRT2 is expressed in a wide range of tissues, particularly tissues which are metabolically active such as the heart, brain, and adipose tissue ([Tang et al. 2017](#)). SIRT2 has been shown to have tumor-promoting activity. Inhibition of SIRT2 has been found to promote ubiquitination and degradation of c-Myc and has broad anticancer effects across a range of human cancer cell lines ([Jing et al. 2016](#)).

### Western Blotting

Mouse anti SIRT2 detects a band of approximately 39 and 44 kDa in HEK293 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/VMA00960>  
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](https://bio-rad-antibodies.com/datasheets)

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