

## Datasheet: VMA00316

<b>Description:</b>	MOUSE ANTI SUPEROXIDE DISMUTASE (Cu-Zn)
<b>Specificity:</b>	SUPEROXIDE DISMUTASE (Cu-Zn)
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Isotype:</b>	IgG1
<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	▪			1/1000

**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>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Mouse monoclonal antibody prepared by affinity chromatography on Protein G from ascites.
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ).
<b>Immunogen</b>	Purified recombinant fragment of human superoxide dismutase (Cu-Zn) expressed in <i>E. coli</i>
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P00441</a> <a href="#">Related reagents</a>

**Entrez Gene:**[6647](#) SOD1 [Related reagents](#)

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<b>Specificity</b>	<p><b>Mouse anti Human superoxide dismutase (Cu-Zn) antibody</b> recognizes superoxide dismutase (Cu-Zn) otherwise known as SOD1. Superoxide dismutases (SOD) are a class of enzymes that catalyze the dismutation of superoxide into oxygen and hydrogen peroxide. As such, they are an important antioxidant defense in nearly all cells exposed to oxygen. There are three major families of superoxide dismutase, depending on the metal cofactor: Cu-Zn (which binds both copper and zinc), Fe and Mn types (which bind either iron or manganese), and finally the Ni type, which binds nickel.</p> <p>Mouse anti Human superoxide dismutase (Cu-Zn) antibody detects SOD1 as a single band of 16 kDa in a range of human cell line lysates. Cross reactivity with rodent cell lines is also observed.</p>
<b>Western Blotting</b>	Anti superoxide dismutase (Cu-Zn) detects a band of approximately 18 kDa in Raji cell lysates.
<b>Storage</b>	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
<b>Guarantee</b>	12 months from date of despatch.
<b>Acknowledgements</b>	PrecisionAb is a trademark of Bio-Rad Laboratories.
<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10040 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VMA00316">https://www.bio-rad-antibodies.com/SDS/VMA00316</a> Antibody (10040)
<b>Regulatory</b>	For research purposes only.

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## Related Products

### Recommended Secondary Antibodies

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

### Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

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

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