

Datasheet: MCA2595

**BATCH NUMBER 152163**

<b>Description:</b>	MOUSE ANTI SUPEROXIDE DISMUTASE (Cu-Zn)
<b>Specificity:</b>	SUPEROXIDE DISMUTASE (Cu-Zn)
<b>Other names:</b>	SOD
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	2F5
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.1 mg

## 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
Flow Cytometry			▪	
Immunohistology - Frozen	▪			
Immunohistology - Paraffin	▪			
ELISA	▪			
Immunoprecipitation			▪	
Western Blotting			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using appropriate negative/positive controls.

<b>Target Species</b>	Bovine
<b>Species Cross Reactivity</b>	<p>Reacts with: Human, Mouse</p> <p><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.</p>
<b>Product Form</b>	Purified IgG - liquid
<b>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein G from tissue culture

supernatant

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<b>Buffer Solution</b>	Phosphate buffered saline
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<b>Preservative Stabilisers</b>	0.1% Sodium Azide (NaN <sub>3</sub> ) 0.1% Bovine Serum Albumin
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<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
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<b>Immunogen</b>	Superoxide dismutase enzyme prepared from bovine erythrocytes.
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<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P00442</a> <a href="#">Related reagents</a>  <b>Entrez Gene:</b> <a href="#">281495</a> SOD1 <a href="#">Related reagents</a>
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<b>RRID</b>	AB_808750
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<b>Fusion Partners</b>	Cells from immunised mice were fused with cells of the mouse Sp-2/0-Ag14 myeloma cell line.
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<b>Specificity</b>	<p><b>Mouse anti Bovine superoxide dismutase (Cu/Zn) antibody, clone 2F5</b> recognizes bovine superoxide dismutase (Cu/Zn), also known by it's gene name SOD1. Bovine superoxide dismutase (Cu/Zn) is a 152 amino acid ~15kDa cytoplasmic protein involved in the removal of free radicals from the cytosol. Superoxide dismutases 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 Bovine superoxide dismutase (Cu/Zn) antibody, clone 2F5 does not cross react with immunoglobulins but does react weakly with Mn SOD.</p>
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<b>Immunohistology</b>	This product does not require pre-treatment of paraffin embedded sections e.g. trypsin or pronase prior to staining. This product does not require antigen retrieval using heat treatment methods prior to staining of paraffin sections.
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<b>Histology Positive Control Tissue</b>	Human spleen and lymph node.
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<b>References</b>	1. Paździor-Czapula, K. <i>et al.</i> (2014) Immunohistochemical evaluation of superoxide dismutase (Cu/Zn SOD) concentrations in erythrocytes of dairy cattle and farm-raised deer by a computer-assisted analysis of microscopic images. <a href="#">Pol J Vet Sci. 17: 275-9.</a>
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<b>Storage</b>	Store at +4°C or at -20°C if preferred.
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Storage in frost-free freezers is not recommended.

This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

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<b>Guarantee</b>	12 months from date of despatch
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<b>Health And Safety Information</b>	Material Safety Datasheet documentation #10041 available at: <a href="https://www.bio-rad-antibodies.com/SDS/MCA2595">https://www.bio-rad-antibodies.com/SDS/MCA2595</a> 10041
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<b>Regulatory</b>	For research purposes only
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## Related Products

### Recommended Secondary Antibodies

Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG IgA IgM (STAR87...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR76...)	<a href="#">RPE</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (H/L) (STAR117...)	<a href="#">Alk. Phos.</a> , <a href="#">DyLight@488</a> , <a href="#">DyLight@550</a> , <a href="#">DyLight@650</a> , <a href="#">DyLight@680</a> , <a href="#">DyLight@800</a> , <a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>

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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://bio-rad-antibodies.com/datasheets)  
'M367230:200529'

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