

## Datasheet: VPA00069

|                      |                                     |
|----------------------|-------------------------------------|
| <b>Description:</b>  | GOAT ANTI SUPEROXIDE DISMUTASE (Mn) |
| <b>Specificity:</b>  | SUPEROXIDE DISMUTASE (MN)           |
| <b>Other names:</b>  | SOD2                                |
| <b>Format:</b>       | Purified                            |
| <b>Product Type:</b> | PrecisionAb Polyclonal              |
| <b>Isotype:</b>      | Polyclonal IgG                      |
| <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>              | Goat polyclonal antibody purified by affinity chromatography.                           |
| <b>Buffer Solution</b>          | TRIS buffered saline.   |
| <b>Preservative Stabilisers</b> | 0.02% Sodium Azide (NaN <sub>3</sub> )<br>0.5% Bovine Serum Albumin                     |
| <b>Immunogen</b>                | Synthetic peptide with sequence C-EAIKRDFGSFDK from the internal region of the protein. |

### External Database

#### Links

#### UniProt:

[P04179](#)

[Related reagents](#)

**Entrez Gene:**

[6648](#) SOD2 [Related reagents](#)

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|                                      |   |
|--------------------------------------|---|
| <b>Specificity</b>                   | <p><b>Goat anti Human superoxide dismutase (Mn) antibody</b> recognizes manganese superoxide dismutase (MNSOD) or SOD2, a superoxide dismutase with manganese at the active site. 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>Goat anti Human superoxide dismutase (Mn) antibody recognises human superoxide dismutase (Mn) as a single band of 24 kDa in range of human cell line lysates.</p> |
| <b>Western Blotting</b>              | Goat anti superoxide dismutase (Mn) detects a band of approximately 24 kDa in K562 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 #10058 available at: <a href="https://www.bio-rad-antibodies.com/SDS/VPA00069">https://www.bio-rad-antibodies.com/SDS/VPA00069</a><br>Antibody (10058)  |
| <b>Regulatory</b>                    | For research purposes only.   |

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## Related Products

### Recommended Secondary Antibodies

Donkey Anti Sheep IgG (STAR88...) [HRP](#)

**North & South America** Tel: +1 800 265 7376

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Email: [antibody\\_sales\\_us@bio-rad.com](mailto:antibody_sales_us@bio-rad.com)

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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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