

## Datasheet: VMA00129

|                      |                        |
|----------------------|------------------------|
| <b>Description:</b>  | MOUSE ANTI CATALASE    |
| <b>Specificity:</b>  | CATALASE               |
| <b>Format:</b>       | Purified               |
| <b>Product Type:</b> | PrecisionAb Monoclonal |
| <b>Clone:</b>        | OTI1B6                 |
| <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 purified by affinity chromatography from ascites.       |
| <b>Buffer Solution</b>                | Phosphate buffered saline.  |
| <b>Preservative Stabilisers</b>       | 0.09% Sodium Azide (NaN <sub>3</sub> )<br>1% Bovine Serum Albumin<br>50% Glycerol |
| <b>Approx. Protein Concentrations</b> | IgG concentration 0.5 mg/ml.  |
| <b>Immunogen</b>                      | Full length recombinant human catalase (NP_111743) produced in HEK293T cells      |

**External Database  
Links**

**UniProt:**

[P04040](#)   [Related reagents](#)

**Entrez Gene:**

[847](#)   CAT   [Related reagents](#)

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**Specificity**

**Mouse anti Human catalase antibody, clone OT11B6** recognizes catalase, a key antioxidant enzyme in the bodies defense against oxidative stress.

Catalase is a heme enzyme that is present in the peroxisome of nearly all aerobic cells. It converts the reactive oxygen species hydrogen peroxide to water and oxygen and thereby mitigates the toxic effects of hydrogen peroxide. Oxidative stress is hypothesized to play a role in the development of many chronic or late-onset diseases such as diabetes, asthma, Alzheimer's disease, systemic lupus erythematosus, rheumatoid arthritis, and cancers. Polymorphisms in the CAT gene have been associated with decreases in catalase activity but, to date, acatalasemia is the only disease known to be caused by catalase (provided by RefSeq, Oct 2009).

Mouse anti Human catalase antibody detects a band of 60 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting**

Anti catalase detects a band of approximately 60 kDa in K562 cell lysates.

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**Storage**

Store undiluted at -20°C, avoiding repeated freeze thaw cycles.

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**Guarantee**

12 months from date of despatch.

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**Acknowledgements**

PrecisionAb is a trademark of Bio-Rad Laboratories.

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**Health And Safety  
Information**

Material Safety Datasheet documentation #10048 available at:  
<https://www.bio-rad-antibodies.com/SDS/VMA00129>  
Antibody (10048)

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**Regulatory**

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](http://bio-rad-antibodies.com/datasheets)

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