

## Datasheet: VMA00364

<b>Description:</b>	MOUSE ANTI GLUTATHIONE SYNTHETASE
<b>Specificity:</b>	GLUTATHIONE SYNTHETASE
<b>Format:</b>	Purified
<b>Product Type:</b>	PrecisionAb Monoclonal
<b>Clone:</b>	OTI2F2
<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.

### Target Species

Human

### Species Cross Reactivity

Reacts with: Mouse  
**N.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.

### Product Form

Purified IgG - liquid

### Preparation

Mouse monoclonal antibody purified by affinity chromatography from ascites

### Buffer Solution

Phosphate buffered saline

### Preservative Stabilisers

0.09% Sodium Azide (NaN<sub>3</sub>)  
 1% Bovine Serum Albumin

50% Glycerol

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**Immunogen** Full length recombinant human glutathione synthetase (NP\_000169) produced in HEK293T cells

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**External Database Links**

**UniProt:**

[P48637](#)    [Related reagents](#)

**Entrez Gene:**

[2937](#)    GSS    [Related reagents](#)

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**Specificity**

**Mouse anti Human glutathione synthetase antibody** recognizes glutathione synthetase, also known as GSH synthetase, GSS, GSH-S, epididymis secretory sperm binding protein Li 64p and epididymis secretory sperm binding protein Li 88n.

Glutathione is important for a variety of biological functions, including protection of cells from oxidative damage by free radicals, detoxification of xenobiotics, and membrane transport. Encoded by the GSS gene, glutathione synthetase functions as a homodimer to catalyze the second step of glutathione biosynthesis, which is the ATP-dependent conversion of gamma-L-glutamyl-L-cysteine to glutathione. Defects in GSS are a cause of glutathione synthetase deficiency (provided by RefSeq, Jul 2008).

Mouse anti Human glutathione synthetase antibody detects a band of 52 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

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**Western Blotting** Anti glutathione synthetase detects a band of approximately 52 kDa in HeLa 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: Antibody (10048): <https://www.bio-rad-antibodies.com/uploads/MSDS/10048.pdf>

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

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