

## Datasheet: VMA00153

<b>Description:</b>	MOUSE ANTI GLUTAMATE DECARBOXYLASE 2
<b>Specificity:</b>	GLUTAMATE DECARBOXYLASE 2
<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>Species Cross Reactivity</b>	<p>Reacts with: Mouse, Rat</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>	Mouse monoclonal antibody prepared by affinity chromatography on Protein G from tissue culture supernatant.
<b>Buffer Solution</b>	Phosphate buffered saline.
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> ).
<b>Immunogen</b>	Keyhole limpet haemocyanin (KLH) conjugated synthetic peptide sequence

PGSGFWSFGSEDGSGDSEN corresponding to amino acids 4-22 within the N-terminal region of human glutamate decarboxylase 2

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**External Database Links**

**UniProt:**

[Q05329](#)

[Related reagents](#)

**Entrez Gene:**

[2572](#)

GAD2

[Related reagents](#)

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**Synonyms**

GAD65

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**Specificity**

**Mouse anti Human glutamate decarboxylase 2 antibody** recognizes glutamate decarboxylase 2, also known as 65 kDa glutamic acid decarboxylase, GAD-65, or glutamate decarboxylase 65 kDa isoform.

Encoded by the GAD2 gene, glutamate decarboxylase 2 is one of several forms of glutamic acid decarboxylase. Glutamate decarboxylase 2 is responsible for catalyzing the production of gamma-aminobutyric acid from L-glutamic acid. A pathogenic role for this enzyme has been identified in the human pancreas since it has been identified as an autoantibody and an autoreactive T cell target in insulin-dependent diabetes. GAD2 may also play a role in the stiff man syndrome. Alternative splicing results in multiple transcript variants that encode the same protein (provided by RefSeq, Oct 2008).

Mouse anti Human glutamate decarboxylase 2 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 glutamate Decarboxylase 2 detects a band of approximately 60 kDa in Mouse Brain 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 #10040 available at: <https://www.bio-rad-antibodies.com/SDS/VMA00153>  
Antibody (10040)

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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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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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**Printed on 13 Aug 2023**

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