

Datasheet: VMA00153

BATCH NUMBER 150615

Description:	MOUSE ANTI GLUTAMATE DECARBOXYLASE 2
Specificity:	GLUTAMATE DECARBOXYLASE 2
Format:	Purified
Product Type:	PrecisionAb Monoclonal
Isotype:	IgG1
Quantity:	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.

	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, Rat

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 prepared by affinity chromatography on Protein G from tissue culture supernatant

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide (NaN₃)

Immunogen 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

External Database Links

UniProt:

[Q05329](#) [Related reagents](#)

Entrez Gene:

[2572](#) GAD2 [Related reagents](#)

Synonyms GAD65

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.

Western Blotting Anti glutamate Decarboxylase 2 detects a band of approximately 60 kDa in Mouse Brain cell lysates.

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

Guarantee 12 months from date of despatch

Acknowledgements PrecisionAb is a trademark of Bio-Rad Laboratories.

Health And Safety Information Material Safety Datasheet documentation #10040 available at: Antibody (10040): <https://www.bio-rad-antibodies.com/uploads/MSDS/10040.pdf>

Regulatory For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (H/L) (STAR207...) [HRP](#)

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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