

Datasheet: VMA00153

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

PrecisionAb antibodies have been extensively [validated for the western blot application](#). The antibody has been validated at the suggested dilution. 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 dependant on sample type.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse, Rat N.B. Antibody reactivity and working conditions may vary between species.
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 (NaN ₃)
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.
Instructions For Use	Please refer to the PrecisionAb western blotting protocol . For additional information on secondary antibody dilution and exposure time see product web page.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Shelf Life	As supplied, 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](#)

Recommended Negative Controls

[MOUSE IgG1 NEGATIVE CONTROL \(MCA928\)](#)

North & South America Tel: +1 800 265 7376
Fax: +1 919 878 3751
Email: antibody_sales_us@bio-rad.com

Worldwide Tel: +44 (0)1865 852 700
Fax: +44 (0)1865 852 739
Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21
Fax: +49 (0) 89 8090 95 50
Email: antibody_sales_de@bio-rad.com

'M276013:151015'

Printed on 02 May 2018