

Datasheet: VPA00827

Description:	RABBIT ANTI GLUTAMATE DECARBOXYLASE 1
Specificity:	GLUTAMATE DECARBOXYLASE 1
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
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

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

Rabbit polyclonal antibody purified by affinity chromatography on immunogen

Buffer Solution

Phosphate buffered saline

Preservative Stabilisers

0.09% Sodium Azide
2% Sucrose

Immunogen

Synthetic peptide corresponding to a portion of the N terminal region of human glutamate

decarboxylase 1

External Database**Links****UniProt:**[Q99259](#)[Related reagents](#)**Entrez Gene:**[2571](#)

GAD1

[Related reagents](#)

Synonyms

GAD, GAD67

Specificity

Rabbit anti Human glutamate decarboxylase 1 antibody recognizes glutamate decarboxylase 1, also known as 67 kDa glutamic acid decarboxylase, GAD-67 and GAD1.

GAD1 encodes one of several forms of glutamic acid decarboxylase, identified as a major autoantigen in insulin-dependent diabetes. The enzyme encoded 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 autoantigen and an autoreactive T cell target in insulin-dependent diabetes. Deficiency in this enzyme has been shown to lead to pyridoxine dependency with seizures. Alternative splicing of GAD1 results in two products, the predominant 67 kDa form and a less-frequent 25 kDa form (provided by RefSeq, Jul 2008).

Rabbit anti Human glutamate decarboxylase 1 antibody detects a band of 67 kDa. The antibody has been extensively validated for western blotting using whole cell lysates.

Western Blotting

Anti glutamate decarboxylase 1 antibody recognizes a band of approximately 67 kDa in NIH/3T3 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 #10045 available at:

Antibody (10045): <https://www.bio-rad-antibodies.com/uploads/MSDS/10045.pdf>

Regulatory

For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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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
'M371074:200529'

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