Datasheet: AHP360

Description: RABBIT ANTI GLUTAMATE DECARBOXYLASE 1/2

Specificity: GLUTAMATE DECARBOXYLASE 1/2 65/67kDa

Other names: GAD1, GAD2

Format: Purified

Product Type: Polyclonal Antibody

Isotype: Polyclonal IgG

Quantity: 0.1 ml

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.

<table>
<thead>
<tr>
<th>Application</th>
<th>Yes</th>
<th>No</th>
<th>Not Determined</th>
<th>Suggested Dilution</th>
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<tbody>
<tr>
<td>Flow Cytometry</td>
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<td>Immunohistology - Frozen</td>
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<td>1/200 - 1/5000</td>
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<td>Immunohistology - Paraffin</td>
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<td>ELISA</td>
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<td>Immunoprecipitation</td>
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<td>Western Blotting</td>
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<td>1/1000 - 1/10000</td>
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<tr>
<td>Immunofluorescence</td>
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Where this antibody has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the antibody for use in their own system using appropriate negative/positive controls.

Target Species: Rat

Species Cross Reactivity: Reacts with: Cat, Human, Mouse

N.B. Antibody reactivity and working conditions may vary between species.

Product Form: Purified IgG - liquid

Antiserum Preparation: Antiserum to glutamic acid decarboxylase was raised by repeated immunisation of with highly purified antigen. Purified IgG was prepared from whole serum by affinity chromatography on protein A.

Buffer Solution: Phosphate buffered saline

Preservative Stabilisers: 0.09% Sodium Azide (NaN₃)

Immunogen: Synthetic peptide sequence D-F-L-I-E-E-I-E-R-L-G-Q-D-L from the C terminus of rat GAD2
Rabbit anti Glutamate Decarboxylase 1/2 antibody recognizes both molecular forms of glutamate decarboxylase, GAD1 (GAD67) and GAD2 (GAD65), the enzyme which converts glutamic acid to gamma-aminobutyric acid (GABA), the major inhibitory transmitter in the higher brain region.

Histology Positive Control Tissue
Brain

Western Blotting
A doublet at approximately 65/67 kDa can be expected

References

Storage
Store at +4°C or at -20°C if preferred.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the antibody. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee
12 months from date of despatch

Health And Safety Information
Material Safety Datasheet documentation #10040 available at:

Regulatory
For research purposes only

Related Products
Recommended Secondary Antibodies
Sheep Anti Rabbit IgG (STAR34...) FITC
Goat Anti Rabbit IgG (H/L) (STAR124...) HRP
Goat Anti Rabbit IgG (Fc) (STAR121...)  Biotin, FITC, HRP
Sheep Anti Rabbit IgG (STAR35...)  RPE
Sheep Anti Rabbit IgG (STAR36...)  DyLight®488, DyLight®680, DyLight®800

**Recommended Useful Reagents**

- **ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025A)**
- **ANTIGEN RETRIEVAL BUFFER, pH8.0 (BUF025C)**
- **TidyBlot WESTERN BLOT DETECTION REAGENT:HRP (STAR209P)**