

## Datasheet: AHP1320

<b>Description:</b>	RABBIT ANTI HUMAN GLYCOGEN PHOSPHORYLASE BB
<b>Specificity:</b>	GLYCOGEN PHOSPHORYLASE BB
<b>Other names:</b>	GPBB
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	50 µg

## 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
Flow Cytometry			▪	
Immunohistology - Frozen			▪	
Immunohistology - Paraffin (1)	▪			10ug/ml
ELISA			▪	
Immunoprecipitation			▪	
Western Blotting			▪	
Functional Assays			▪	

Where this product 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 product for use in their own system using appropriate negative/positive controls.

**(1) This product requires antigen retrieval using heat treatment prior to staining of paraffin sections. Sodium citrate buffer pH 6.0 is recommended for this purpose.**

<b>Target Species</b>	Human
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to human brain glycogen phosphorylase were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared by affinity chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative</b>	<0.1% Sodium Azide (NaN <sub>3</sub> )

## Stabilisers

### Approx. Protein Concentrations

IgG concentration 1.0 mg/ml

### Immunogen

Synthetic peptide: internal domain of human brain glycogen phosphorylase, conjugated to Keyhole Limpet Hemocyanin.

### External Database Links

#### UniProt:

[P11216](#)

[Related reagents](#)

#### Entrez Gene:

[5834](#)

PYGB

[Related reagents](#)

### RRID

AB\_906033

### Specificity

**Rabbit anti Human glycogen phosphorylase BB antibody** detects brain glycogen phosphorylase, a regulatory enzyme which catalyses the rate-determining step in glycogen degradation. Mammalian glycogen phosphorylase is found as three major isozymes including muscle (GPMM), liver (GPLL), and brain (GPBB), which can be distinguished by their structural and functional properties as well as by the tissues in which they are expressed.

GPBB is thought to function in the release of emergency glucose during stress, and in embryogenesis where it is the predominant isozyme. GPBB is also expressed in the early stages of gastric and colorectal cancers.

### Histology Positive Control Tissue

Brain

### References

1. Holmes, A.P. *et al.* (2014) Glycogen metabolism protects against metabolic insult to preserve carotid body function during glucose deprivation. [J Physiol. 592 \(Pt 20\): 4493-506.](#)

### Further Reading

1. Tashima, S. *et al.* (2000) Expression of brain-type glycogen phosphorylase is a potentially novel early biomarker in the carcinogenesis of human colorectal carcinomas. [Am J Gastroenterol. 95 \(1\): 255-63.](#)

### Storage

This product is shipped at ambient temperature. It is recommended to aliquot and store at -20°C on receipt. When thawed, aliquot the sample as needed. Keep aliquots at 2-8°C for short term use (up to 4 weeks) and store the remaining aliquots at -20°C.

Avoid repeated freezing and thawing as this may denature the antibody. Storage in frost-free freezers is not recommended.

### Guarantee

12 months from date of despatch

### Health And Safety

Material Safety Datasheet documentation #10040 available at:

**Information** <https://www.bio-rad-antibodies.com/SDS/AHP132010040>

**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight®488](#), [DyLight®680](#), [DyLight®800](#)

### Recommended Useful Reagents

[ANTIGEN RETRIEVAL BUFFER, pH8.0 \(BUF025A\)](#)

<b>North &amp; South America</b>	Tel: +1 800 265 7376 Fax: +1 919 878 3751 Email: <a href="mailto:antibody_sales_us@bio-rad.com">antibody_sales_us@bio-rad.com</a>	<b>Worldwide</b>	Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: <a href="mailto:antibody_sales_uk@bio-rad.com">antibody_sales_uk@bio-rad.com</a>	<b>Europe</b>	Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: <a href="mailto:antibody_sales_de@bio-rad.com">antibody_sales_de@bio-rad.com</a>
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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](https://www.bio-rad-antibodies.com/datasheets)  
'M389133:210806'

Printed on 12 Aug 2023

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