

## Datasheet: AHP1292GA

<b>Description:</b>	RABBIT ANTI BETA GALACTOSIDASE
<b>Specificity:</b>	BETA GALACTOSIDASE
<b>Format:</b>	Purified
<b>Product Type:</b>	Polyclonal Antibody
<b>Isotype:</b>	Polyclonal IgG
<b>Quantity:</b>	0.1 mg

## 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	■			1/50 - 1/300
Immunohistology - Paraffin	■			1/50 - 1/300
ELISA	■			1/400 - 1/1600
Western Blotting	■			1/200 - 1/500
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.

<b>Target Species</b>	Bacterial
<b>Product Form</b>	Purified IgG - liquid
<b>Antiserum Preparation</b>	Antisera to beta-galactosidase were raised by repeated immunisations of rabbits with highly purified antigen. Purified IgG prepared from whole serum by ion exchange chromatography.
<b>Buffer Solution</b>	Phosphate buffered saline
<b>Preservative Stabilisers</b>	0.09% Sodium Azide (NaN <sub>3</sub> )
<b>Approx. Protein Concentrations</b>	IgG concentration 1.0 mg/ml
<b>Immunogen</b>	Beta-galactosidase prepared from <i>E. coli</i> .
<b>External Database Links</b>	<b>UniProt:</b> <a href="#">P00722</a> <a href="#">Related reagents</a>

**Specificity** **Rabbit anti beta-galactosidase polyclonal antibody** detects beta-galactosidase, an inducible enzyme that catalyzes the hydrolysis of lactose and other beta-galactosides into monosaccharides.

Beta-galactosidase is a product of the *LacZ* operon, and is a homo-tetrameric protein consisting of four identical subunits of approximately 116 kDa each. beta-galactosidase is commonly used as a reporter gene in molecular biology to assess the efficiency of transfection.

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**Western Blotting** AHP1292GA detects a band of approximately 117kDa using *E. coli* beta-galactosidase.

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**References**

1. Nam, K.T. *et al.* (2012) Spasmolytic polypeptide-expressing metaplasia (SPEM) in the gastric oxyntic mucosa does not arise from Lgr5-expressing cells. [Gut. 61 \(12\): 1678-85.](#)
2. Wende, C.Z. *et al.* (2015) Hairy/Enhancer-of-Split MEGANE and Proneural MASH1 Factors Cooperate Synergistically in Midbrain GABAergic Neurogenesis. [PLoS One. 10 \(5\): e0127681.](#)

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**Further Reading** 1. Matthews, B. W. (2005) The structure of *E. coli* beta-galactosidase. [C. R. Biol. 328: 549-556.](#)

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**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.

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**Shelf Life** 18 months from date of despatch

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

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**Regulatory** For research purposes only

## Related Products

### Recommended Secondary Antibodies

Sheep Anti Rabbit IgG (STAR34...) [FITC](#)  
Sheep Anti Rabbit IgG (STAR35...) [RPE](#)  
Goat Anti Rabbit IgG (H/L) (STAR124...) [HRP](#)  
Goat Anti Rabbit IgG (Fc) (STAR121...) [Biotin](#), [FITC](#), [HRP](#)  
Sheep Anti Rabbit IgG (2AB02...) [Biotin](#)  
Sheep Anti Rabbit IgG (STAR36...) [DyLight@488](#), [DyLight@549](#), [DyLight@649](#),  
[DyLight@680](#), [DyLight@800](#)

### Recommended Useful Reagents

[TidyBlot™ WESTERN BLOT DETECTION REAGENT:HRP \(STAR209P\)](#)

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'M279296:160115'

Printed on 02 May 2018