

## Datasheet: 7240-1009

<b>Description:</b>	MOUSE ANTI HUMAN PEPSINOGEN I
<b>Specificity:</b>	PEPSINOGEN I
<b>Other names:</b>	PG I
<b>Format:</b>	Purified
<b>Product Type:</b>	Monoclonal Antibody
<b>Clone:</b>	8003 (99/12)
<b>Isotype:</b>	IgG1
<b>Quantity:</b>	0.2 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
Immunohistology - Frozen			■	
Immunohistology - Paraffin (1)	■			
ELISA	■			
Western Blotting			■	
Radioimmunoassays	■			

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 the 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>Preparation</b>	Purified IgG prepared by affinity chromatography on Protein A
<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 0.5 mg/ml
<b>Immunogen</b>	Purified human pepsinogen 1.
<b>Specificity</b>	<b>Mouse anti Human pepsinogen 1 antibody, clone 8003</b> recognizes human Pepsinogen I, a

zymogen or proenzyme secreted by chief cells in the stomach. It is cleaved to form pepsin both in an autocatalytic fashion and by pepsin itself. In humans there are two related forms of pepsin, Pepsinogen I (also known as pepsinogen A), and Pepsinogen II (also known as Pepsinogen B or progastricsin).

Mouse anti Human pepsinogen 1 antibody, clone 8003 has an affinity of  $4 \times 10^{10}$  l/mol human Pepsinogen I.

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## References

1. Ueyama, H. *et al.* (2010) Gastric adenocarcinoma of fundic gland type (chief cell predominant type): proposal for a new entity of gastric adenocarcinoma. [Am J Surg Pathol. 34: 609-19.](#)
2. Genta, R.M. & Puztaszeri, M. (2006) The gastric mucosa in gastric cancer patients in a low-incidence area. [Eur J Gastroenterol Hepatol. 18 \(10\): 1085-93.](#)
3. Fujita, Y. *et al.* (2016) Incidence of lymphatic involvement in differentiated-type intramucosal gastric cancers as examined by endoscopic resection. [Gastric Cancer. 19 \(1\): 192-7.](#)
4. Hidaka, Y. *et al.* (2013) Alteration in the Wnt/ $\beta$ -catenin signaling pathway in gastric neoplasias of fundic gland (chief cell predominant) type [Hum Pathol. 44: 2438-48.](#)
5. Sakamoto, H. *et al.* (2011) Cell lineage dynamics in the process leading to intestinal metaplasia. [J Gastroenterol. 46: 620-8.](#)
6. Nakajima, T. *et al.* (2016) Distribution of Lgr5-positive cancer cells in intramucosal gastric signet-ring cell carcinoma. [Pathol Int. 66 \(9\): 518-23.](#)
7. Mamat O *et al.* (2016) Fundic gland differentiation of oncocytic/pancreatobiliary subtypes of pancreatic intraductal papillary mucinous neoplasms. [Histopathology. Mar 17. \[Epub ahead of print\]](#)
8. Mitsuishi, T. *et al.* (2017) Clinicopathological characteristics of duodenal epithelial neoplasms: Focus on tumors with a gastric mucin phenotype (pyloric gland-type tumors). [PLoS One. 12 \(4\): e0174985.](#)
9. Chiba, T. *et al.* (2016) Clinicopathological features of gastric adenocarcinoma of the fundic gland (chief cell predominant type) by retrospective and prospective analyses of endoscopic findings. [Dig Endosc. 28 \(7\): 722-30.](#)
10. Nakajima, T. *et al.* (2016) Distribution of Lgr5-positive cancer cells in intramucosal gastric signet-ring cell carcinoma. [Pathol Int. 66 \(9\): 518-23.](#)

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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

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## Related Products

### Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR76...) [RPE](#)  
Goat Anti Mouse IgG IgA IgM (STAR87...) [Alk. Phos.](#), [HRP](#)  
Goat Anti Mouse IgG (H/L) (STAR117...) [Alk. Phos.](#), [DyLight@488](#), [DyLight@549](#),  
[DyLight@649](#), [DyLight@680](#), [DyLight@800](#),

	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR9...)	<a href="#">FITC</a>
Goat Anti Mouse IgG (STAR77...)	<a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR12...)	<a href="#">RPE</a>
Goat Anti Mouse IgG (Fc) (STAR120...)	<a href="#">FITC</a> , <a href="#">HRP</a>
Rabbit Anti Mouse IgG (STAR8...)	<a href="#">DyLight®800</a>
Goat Anti Mouse IgG (STAR70...)	<a href="#">FITC</a>
Rabbit Anti Mouse IgG (STAR13...)	<a href="#">HRP</a>
Human Anti Mouse IgG1 (HCA036...)	<a href="#">HRP</a>

## Recommended Negative Controls

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

<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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Printed on 01 May 2018

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