Datasheet: 7240-1009

BATCH NUMBER 166233

Description:	MOUSE ANTI HUMAN PEPSINOGEN I
Specificity:	PEPSINOGEN I
Other names:	PG I
Format:	Purified
Product Type:	Monoclonal Antibody
Clone:	8003 (99/12)
Isotype:	IgG1
Quantity:	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.

	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.**

Target Species	Human
Product Form	Purified IgG - liquid
Preparation	Purified IgG prepared by affinity chromatography on Protein A from tissue culture supernatant
Buffer Solution	Phosphate buffered saline

Preservative Stabilisers	<0.1% Sodium Azide (NaN_3)
Approx. Protein Concentrations	IgG concentration 0.5 mg/ml
Immunogen	Purified human pepsinogen 1.
RRID	AB_2160770
Specificity	**Mouse anti Human pepsinogen 1 antibody, clone 8003** 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 x 10^{10} l/mol human Pepsinogen I.
References	1. Genta, R.M. & Pusztaszeri, M. (2006) The gastric mucosa in gastric cancer patients in a low-incidence area. Eur J Gastroenterol Hepatol. 18 (10): 1085-93. 2. 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. 3. Sakamoto, H. *et al.* (2011) Cell lineage dynamics in the process leading to intestinal metaplasia. J Gastroenterol. 46: 620-8. 4. Hidaka, Y. *et al.* (2013) Alteration in the Wnt/β-catenin signaling pathway in gastric neoplasias of fundic gland (chief cell predominant) type Hum Pathol. 44: 2438-48. 5. Nakajima, T. *et al.* (2016) Distribution of Lgr5-positive cancer cells in intramucosal gastric signet-ring cell carcinoma. Pathol Int. 66 (9): 518-23. 6. 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. 7. Mamat, O. *et al.* (2016) Fundic gland differentiation of oncocytic/pancreatobiliary subtypes of pancreatic intraductal papillary mucinous neoplasm. Histopathology. 69 (4): 570-81. 8. 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. 9. 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.
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 Information	Material Safety Datasheet documentation #10040 available at: https://www.bio-rad-antibodies.com/SDS/7240-1009 10040
Regulatory	For research purposes only

Related Products

Recommended Secondary Antibodies

Goat Anti Mouse IgG (STAR77...)	HRP
Rabbit Anti Mouse IgG (STAR12...)	RPE
Goat Anti Mouse IgG IgA IgM (STAR87...)	Alk. Phos., HRP
Goat Anti Mouse IgG (STAR76...)	RPE
Goat Anti Mouse IgG (Fc) (STAR120...)	FITC, HRP
Rabbit Anti Mouse IgG (STAR13...)	HRP
Rabbit Anti Mouse IgG (STAR9...)	FITC
Goat Anti Mouse IgG (STAR70...)	FITC
Goat Anti Mouse IgG (H/L) (STAR117...)	Alk. Phos., DyLight®488, DyLight®550, DyLight®650, DyLight®680, DyLight®800, FITC, HRP

Recommended Negative Controls

MOUSE IgG1 NEGATIVE CONTROL (MCA928)

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Worldwide Tel: +44 (0)1865 852 700 Fax: +44 (0)1865 852 739 Email: antibody_sales_uk@bio-rad.com

Europe Tel: +49 (0) 89 8090 95 21 Fax: +49 (0) 89 8090 95 50 Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

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