

M-GGMC-1 (HIK1083)

Anti-Mucin Monoclonal Antibody
Recognizing Gastric Gland Mucous Cells

M-GGMC-1 is a monoclonal antibody that recognizes the peripheral α -linked GlcNAc residue present in the carbohydrate moiety of the mucin molecule and reacts with oligosaccharides bearing a peripheral α -GlcNAc structure.² M-GGMC-1 recognizes the gastric gland mucous cell-derived mucin and the reactivity of M-GGMC-1 is similar to the Paradoxical concanavalin A staining method.⁴ It is indicated that M-GGMC-1 is a useful tool for early diagnosis of mucinous minimal deviation adenocarcinoma of the uterus (adenoma malignum) or bronchioloalveolar carcinoma with secreting cells.^{3, 1}

1 Honda, T., Ishii, K., Ota, H., Nakamura, N., Kubo, K. and Kasuyama, T. (1998) *Am. J. Clin. Pathol.* 109, 432-430

2 Ishihara, K., Kurihara, M., Goso, Y., Urata, T., Ota, H., Katsuyama, T. and Hotta, K. (1996) *Biochem.J.* 318, 409-416

3 Ishii, K., Hosaka, N., Toki, T., Momose, M., Hidaka, E., Tsuchiya, S. and Katsuyama, T. (1998) *Virchows Arch.* 432, 315-322

4 Nakamura, N., Ota, H., Katsuyama, T., Ishihara, K., Kurihara, M. and Hotta, K. (1998) *J. Histchem. Cytochem.* 46, 793-801

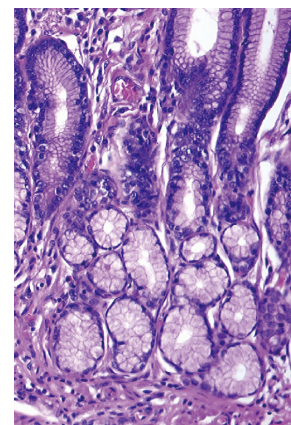
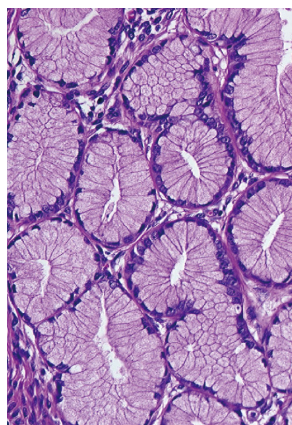
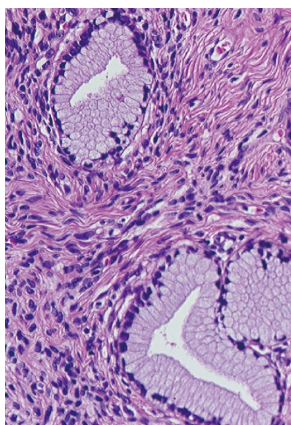
Staining examples

Normal Cervical gland of uterus

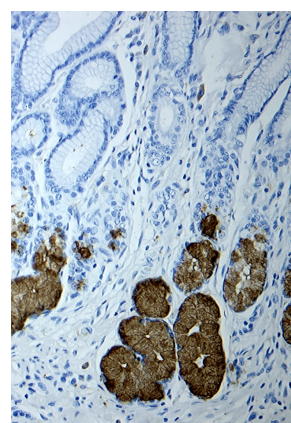
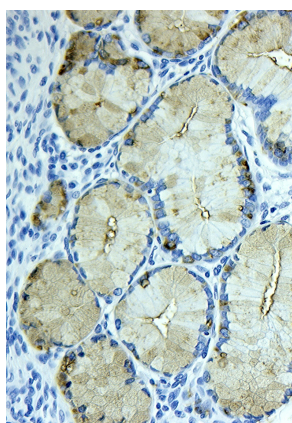
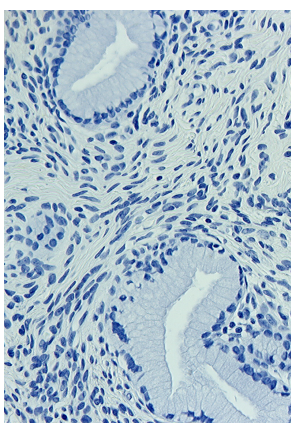
Adenoma malignum

Pyloric gland of stomach

HE stain



M-GGMC-1 (HIK1083) stain



Photos: Courtesy of Keiko Ishii, MD., and Tsutomu Katsuyama, MD., School of Medicine, Shinshu University, JAPAN

Name	Grade	Cat. No.	Size
Anti-Mucin Monoclonal Antibody M-GGMC-1(HIK1083)	for immunoassay	25503-96	for 1mL

*Warning and Caution: This product is intended FOR RESEARCH USE ONLY, not for use in diagnostic or therapeutic procedures involving humans or animals.



Kanto Chemical Co., Inc.

Product information:

Product Form	Lyophilized powder of the clone culture supernatant containing 1 % bovine serum albumin and 3.1 % sodium azide.
Clone (Globulin class)	HIK1083 (mouse IgM, kappa).
Immunogen	Rat gastric mucin.
Epitope	Mucin-type oligosaccharides bearing a peripheral α -GlcNAc structure.
Specificity	Mammalian gastric gland mucous cells (cardiac gland cells, mucous neck cells and pyloric gland cells), Brunner's gland cells.
Application	Formalin-fixed paraffin-embedded section.
Recommendations on Use	Reconstitute product with 1.0 mL of deionized or distilled water. Typical working dilution 1:5 – 1:50. The antibody dilutions are guidelines only: optimal dilutions should be determined by the individual laboratory.
Storage	Store lyophilized product at 4 °C. For immediate use store reconstituted antibody at 4 °C. For long-term storage aliquot antibody into smaller volumes and store at -20 °C or lower.

- Please use the products listed in the catalog as reagents (chemicals used for testing or research purpose).
- Product information is subject to change without notice. For the latest information, please have a look at our website "Cica-Web".



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