COSMO BIO CO., LTD.
Inspiration for Life Science

MONOCLONAL ANTIBODY

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Catalog No. KAN-25503-96-EX

Anti-Mucin M-GGMC-1 (Clone : HIK1083) [GlcNAcα1-R]

BACKGROUND

M-GGMC-1 is a mouse monoclonal antibody which recognizes the peripheral alpha-linked *N*-acetylglucosamine residue present in the carbohydrate moiety of the mucin molecule and reacts with oligosaccharides bearing a peripheral α-GlcNAc structure. M-GGMC-1 recognizes the mucins derived from the normal gastric mucosal cells (mucosal neck cells and pyloric gland cells) and Brunner's gland cells in the gastrointestinal tract of mammalian. In addition, M-GGMC-1 can be used to detect adenoma malignum in the uterine cervical glands have been reported. This antibody is a useful tool for elucidating the biological role of the specific sugar chain.

Product type	Primary antibody
Immunogen	Rat Gastric mucin
Host Species	Mouse
Fusion Partner	Sp2/0
Clone Designation	HIK1083
Isotype	IgM, κ
Source	Hybridoma cell culture
Purification	-
Form	Lyophilized powder (culture supernatant including 1% Bovine serum albumin and 0.05% NaN_3)
Formulation Buffer	-
Concentration	-
Volume	1mL (Reconstituted product with 1mL of deionized or distilled water)
Label	Unlabeled
Specificity	Mucin-type oligosaccharides bearing a peripheral α-linked GlcNAc strucure Epitope : Sugar chain motif; GlcNAcα1-R
Cross species reactivity	-
Storage Conditions	Store at 4°C Reconstituted antibody store at 4°C for immediate use and -20°C or lower for long-term storage. Avoid freeze / thaw cycles.

Application notes
Recommended dilutions

- **ELISA** : 1/10 – 1/1000
- **Immunohistochemistry**: 1/5 - 1/50 (formalin-fixation, paraffin-embedded)

Other applications have not been tested.
Optimal dilutions/concentrations should be determined by the end user.

References

1) K. Ishihara,.*et. al*., (1996) *Biochem. J*. 318(Pt2), 409-416. **PMID**: 8809027
2) N Nakamura,. *et. al.,* (1998) *J Histochem Cytochem.* 46(7). 793-801. **PMID**: 9632738
3) T. Honda, *et. al.,* (1998) *Am J Clin Pathol.* 109(4). 423-430. **PMID**: 9535396
4) K Ishii, *et. al.,* (1998) *Virchows Arch.* 432(4). 315-322. **PMID**: 9565340
5) J Nakayama, *et. al.*, (1999) *Proc Natl Acad Sci USA*. 96(16). 8991-8996. **PMID**: 10430883
6) T Ikezawa, *et., al.,* (2004) J *Gastroenterol.* 39(2). 113-119. **PMID**: 5069617
7) S Kubota, *et. al.,* (2007) *Clin Chim Acta*. 377(1-2). 261-267. **PMID**: 17134689
8) M Iijima, *et. Al.*, (2007) A*m J Dermatopathol.* 29(5). 452-456. **PMID**: 17890913

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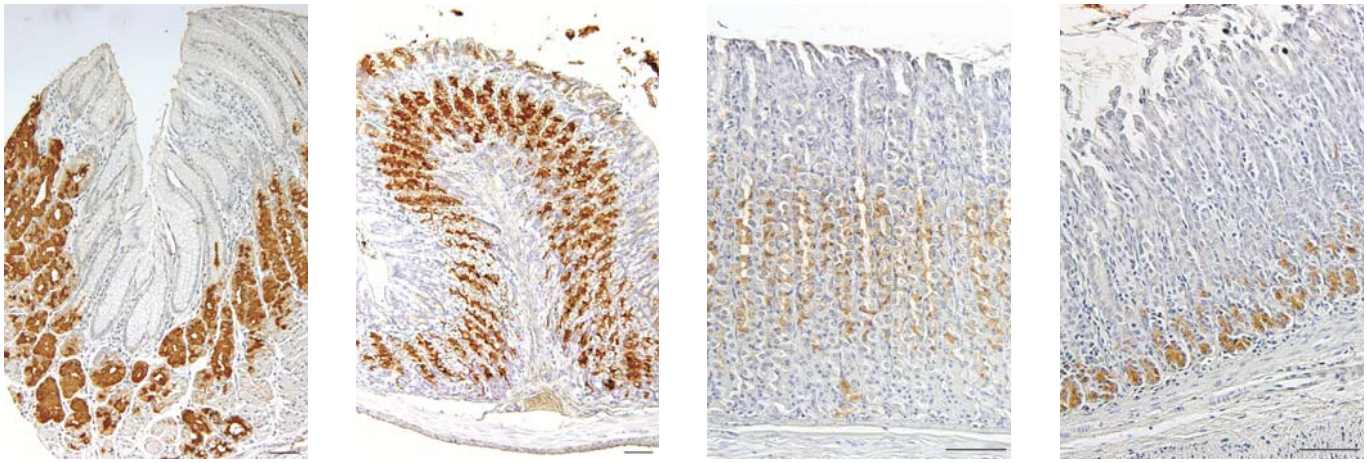
ANTIBODY CHARACTERIZATION



Human Gastric antrum　Mouse Gastric antrum　Rat Gastric corpus　Rat Gastric antrum

Fig.1 Immunohistochemistry

RELATED PRODUCTS:

Product Name	Clone	Maker	Cat#
Anti Mucin mAb M-GGMC-1 (Lyophilized powder of culture supernatant)	HIK1083	KAN	25503-96
Anti Sugar chain [GlcNAcα1-R] mAb (DEAE-Sepharose purified)	HIK1083	KAN	02101-96
Anti Sugar chain [Fucα1-2Galβ1-3GlcNAcβ1-R] mAb	RGM21	KAN	02102-96
Anti Sugar chain [GalNAcα1-3Galβ1-R] mAb	RGM22	KAN	02103-96
Anti Sugar chain [GalNAcα1-3(Fucα1-2)Galβ1-R] mAb	RGM26	KAN	02104-96
Anti Sugar chain [Fucα1-2Galβ1-R] mAb	RGM31	KAN	02105-96
Anti Sugar chain [GalNAcα1-R] mAb	RGM42	KAN	02106-96
Anti Sugar chain [Fucα1-2Galβ1-4(HSO^3-6)GlcNAcβ1-R] mAb	PGM34	KAN	02107-96
Anti Sugar chain [Fucα1-2Galβ1-3(Fucα1-4)GlcNAcβ1-R] mAb	HGM44	KAN	02108-96
Anti Sugar chain [GalNAcα1-3(Fucα1-2)Galβ1-3(Fucα1-4)GlcNAcβ1-R] mAb	HGM75	KAN	02109-96
Anti Sugar chain [GlcNAcα1-4Galβ1-4GlcNAcβ1-R] mAb	HGM504	KAN	02110-96
Anti Sugar chain [Fucα1-2Galβ1-4(Fucα1-3)GlcNAcβ1-R] mAb	HGM505	KAN	02111-96
Anti Sugar chain [GlcNAcα1-4Galβ1-R] mAb	HGM507	KAN	02112-96

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