



## POLYCLONAL ANTIBODY

For research use only. Not for diagnostic use.

Catalog No. KAN-02102-96-EX

## Anti- Sugar chain (Clone : RGM21) [ Fuc $\alpha$ 1-2Gal $\beta$ 1-3GlcNAc $\beta$ 1-R ]

**BACKGROUND**

RGM21 is a mouse monoclonal antibody raised against the mucins purified from normal rat gastric mucosa, and recognizes mucin-type carbohydrate antigens containing a blood group H (type 1 chain) sequence. The RGM21 antigens are mainly expressed on normal gastric surface mucous cells in the gastrointestinal tract of mammalian. 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        | RGM21                                                                                                                                                                       |
| Isotype                  | IgM, $\kappa$                                                                                                                                                               |
| Source                   | Hybridoma cell culture                                                                                                                                                      |
| Purification             | DEAE-Sepharose chromatography                                                                                                                                               |
| Form                     | Liquid                                                                                                                                                                      |
| Formulation Buffer       | PBS with 0.05% NaN <sub>3</sub>                                                                                                                                             |
| Concentration            | 100 $\mu$ g / mL                                                                                                                                                            |
| Volume                   | 50 $\mu$ L                                                                                                                                                                  |
| Label                    | Unlabeled                                                                                                                                                                   |
| Specificity              | Glycoproteins that contain sugar chains including a blood group H (type 1 chain) sequence<br>Epitope : Sugar chain motif; Fuc $\alpha$ 1-2Gal $\beta$ 1-3GlcNAc $\beta$ 1-R |
| Cross species reactivity | -                                                                                                                                                                           |
| Storage Conditions       | Store at 4°C for short-term storage and -20°C or lower for long-term storage<br>Avoid freeze / thaw cycles.                                                                 |

**Application notes  
Recommended  
dilutions**

- **ELISA** : 1/10 – 1/1000
- **Immunohistochemistry**: 1/100 - 1/1000 (formalin-fixation, paraffin-embedded)

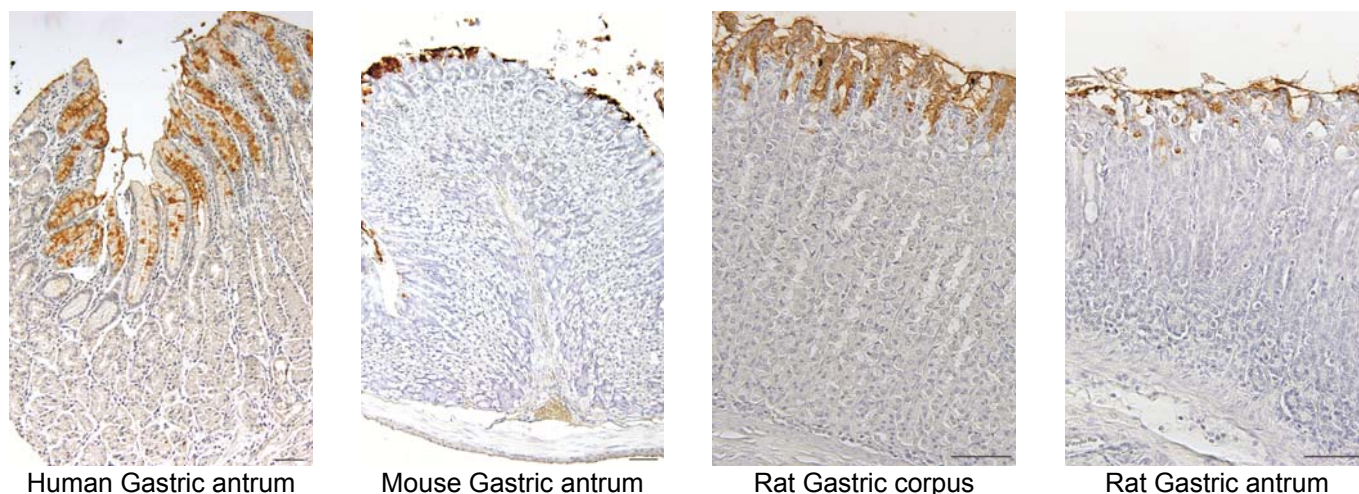
Other applications have not been tested.

Optimal dilutions/concentrations should be determined by the end user.

**References**

- 1) K. Ishihara, *et. al.*, (1996) *Glycoconj. J.* 13(5), 857-864. PMID: [8910013](#)
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- 4) H Hayashida, *et. al.*, (2001) *Scand J Gastroenterol.* 36(5). 467-473. PMID: [11346198](#)
- 5) Y Goso, *et. al.*, (2003) *Seikagaku.* 75(8). 901.
- 6) Y Goso, *et. al.*, (2003) *J Biochem.* 133(4). 453-460. PMID: [12761292](#)
- 7) T Ikezawa, *et. al.*, (2004) *J Gastroenterol.* 39(2). 113-119. PMID: [15069617](#)
- 8) Y Saegusa *et. al.*, (2008) *Scand J Gastroenterol.* 43(1). 59-65. PMID: [18938749](#)
- 9) Y Saegusa, *et. al.*, (2008) *Scand J Gastroenterol.* 43(5). 531-537. PMID: [18415744](#)

## ANTIBODY CHARACTERIZATION



**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 [GlcNAc $\alpha$ 1-R] mAb (DEAE-Sepharose purified)                                              | HIK1083 | KAN   | 02101-96 |
| Anti Sugar chain [Fuc $\alpha$ 1-2Gal $\beta$ 1-3GlcNAc $\beta$ 1-R] mAb                                          | RGM21   | KAN   | 02102-96 |
| Anti Sugar chain [GalNAc $\alpha$ 1-3Gal $\beta$ 1-R] mAb                                                         | RGM22   | KAN   | 02103-96 |
| Anti Sugar chain [GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2) Gal $\beta$ 1-R] mAb                                      | RGM26   | KAN   | 02104-96 |
| Anti Sugar chain [Fuc $\alpha$ 1-2Gal $\beta$ 1-R] mAb                                                            | RGM31   | KAN   | 02105-96 |
| Anti Sugar chain [GalNAc $\alpha$ 1-R] mAb                                                                        | RGM42   | KAN   | 02106-96 |
| Anti Sugar chain [Fuc $\alpha$ 1-2Gal $\beta$ 1-4(HSO <sup>3</sup> -6)GlcNAc $\beta$ 1-R] mAb                     | PGM34   | KAN   | 02107-96 |
| Anti Sugar chain [Fuc $\alpha$ 1-2Gal $\beta$ 1-3(Fuc $\alpha$ 1-4)GlcNAc $\beta$ 1-R] mAb                        | HGM44   | KAN   | 02108-96 |
| Anti Sugar chain [GalNAc $\alpha$ 1-3(Fuc $\alpha$ 1-2) Gal $\beta$ 1-3(Fuc $\alpha$ 1-4) GlcNAc $\beta$ 1-R] mAb | HGM75   | KAN   | 02109-96 |
| Anti Sugar chain [GlcNAc $\alpha$ 1-4Gal $\beta$ 1-4GlcNAc $\beta$ 1-R] mAb                                       | HGM504  | KAN   | 02110-96 |
| Anti Sugar chain [Fuc $\alpha$ 1-2Gal $\beta$ 1-4(Fuc $\alpha$ 1-3)GlcNAc $\beta$ 1-R] mAb                        | HGM505  | KAN   | 02111-96 |
| Anti Sugar chain [GlcNAc $\alpha$ 1-4Gal $\beta$ 1-R] mAb                                                         | HGM507  | KAN   | 02112-96 |

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