



POLYCLONAL ANTIBODY

For research use only. Not for diagnostic use.

Catalog No. 02101-96

Anti- Sugar chain (Clone : HIK1083) [GlcNAc α 1-R]

BACKGROUND

HIK1083 is a mouse monoclonal antibody raised against the mucins purified from normal rat gastric mucosa, and recognizes mucin-type carbohydrate antigens containing a peripheral α -linked *N*-acetylglucosamine. The HIK1083 antigens are mainly expressed on normal gastric mucosal cells (mucosal neck cells and pyloric gland cells) and Brunner's gland 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	HIK1083
Isotype	IgM, κ
Source	Hybridoma cell culture
Purification	DEAE-Sepharose chromatography
Form	Liquid
Formulation Buffer	PBS with 0.05% NaN ₃
Concentration	100 μ g / mL
Volume	50 μ L
Label	Unlabeled
Specificity	Glycoproteins that contain sugar chains including a peripheral α -linked GlcNAc residue Epitope : Sugar chain motif; GlcNAc α 1-R
Cross species reactivity	-
Storage Conditions	Store at 4°C for short-term storage and -20°C or lower for long-term storage 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) *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) *Am J Dermatopathol.* 29(5). 452-456. PMID: [17890913](#)

ANTIBODY CHARACTERIZATION

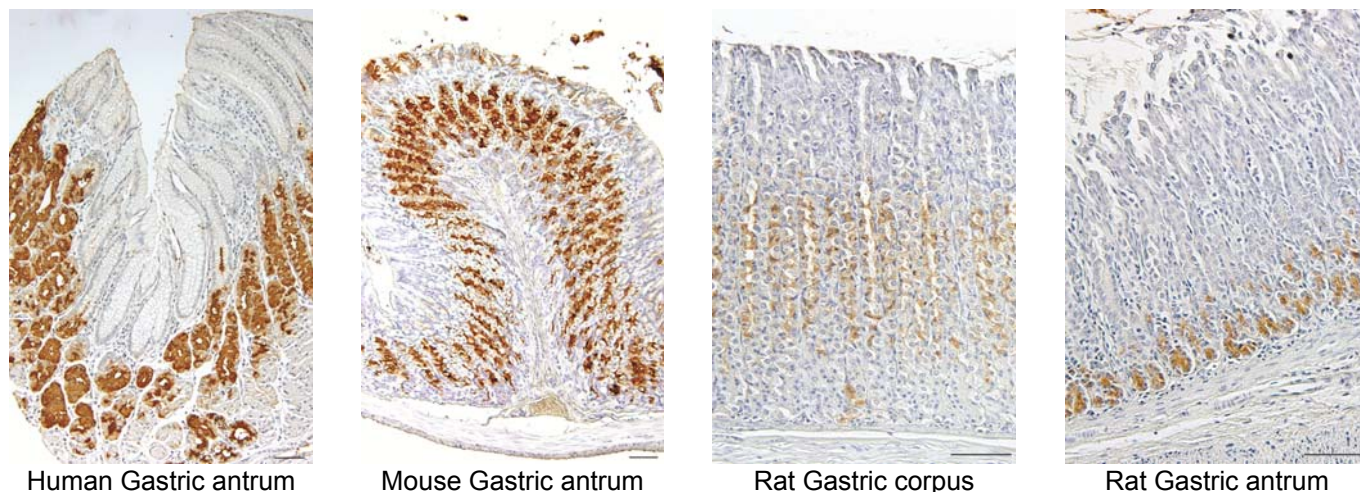


Fig.1 Immunohistochemistry

RELATED PRODUCTS:

Product Name	Clone	Maker	Cat#
Anti Sugar chain [GlcNAc α 1-R] mAb (Lyophilized powder of culture supernatant)	HIK1083	KAN	25503-96
Anti Sugar chain [GlcNAc α 1-R] mAb (DEAE-Sepharose purified)	HIK1083	KAN	02101-96
Anti Sugar chain [Fuc α 1-2Gal β 1-3GlcNAc β 1-R] mAb	RGM21	KAN	02102-96
Anti Sugar chain [GalNAc α 1-3Gal β 1-R] mAb	RGM22	KAN	02103-96
Anti Sugar chain [GalNAc α 1-3(Fuc α 1-2) Gal β 1-R] mAb	RGM26	KAN	02104-96
Anti Sugar chain [Fuc α 1-2Gal β 1-R] mAb	RGM31	KAN	02105-96
Anti Sugar chain [GalNAc α 1-R] mAb	RGM42	KAN	02106-96
Anti Sugar chain [Fuc α 1-2Gal β 1-4(HSO ³ -6)GlcNAc β 1-R] mAb	PGM34	KAN	02107-96
Anti Sugar chain [Fuc α 1-2Gal β 1-3(Fuc α 1-4)GlcNAc β 1-R] mAb	HGM44	KAN	02108-96
Anti Sugar chain [GalNAc α 1-3(Fuc α 1-2) Gal β 1-3(Fuc α 1-4) GlcNAc β 1-R] mAb	HGM75	KAN	02109-96
Anti Sugar chain [GlcNAc α 1-4Gal β 1-4GlcNAc β 1-R] mAb	HGM504	KAN	02110-96
Anti Sugar chain [Fuc α 1-2Gal β 1-4(Fuc α 1-3)GlcNAc β 1-R] mAb	HGM505	KAN	02111-96
Anti Sugar chain [GlcNAc α 1-4Gal β 1-R] mAb	HGM507	KAN	02112-96

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