



Product Information Sheet

Monoclonal Anti-Gastric Mucin

Catalogue No. MA1043

Immunogen

Mucin from human ovarian cystfluid.

Lot No. 08A12

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Clone: GM-8A12

Ig type: mouse IgG1

Application

Western blot

Size: 100µg/vial

At 1-2µg/ml with the appropriate system to detect gastric in cells and tissues.

Specificity

Human.

Immunohistochemistry(P)

No cross reactivity with other proteins.

At 2-4µg/ml to detect mucin gastric in formalin fixed and paraffin embedded tissues.

Immunocytochemistry

Suitable

Other applications have not been tested.

Recommended application

Optimal dilutions should be determined by end user.

Western blot

Immunohistochemistry(P)

Immunocytochemistry

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN₃ as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100µg/ml.

To reorder contact us at:

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Storage

At -20°C for one year. After reconstitution, at 4°C for one month. It can also be aliquotted and stored frozen at -20°C for longer time.

BACKGROUND

The mucin genes encode epithelial glycoproteins, some of which are secreted and some membrane bound. Mucin gastric 6 (MUC6) is a large glycoprotein thought to play a major role in protecting the gastrointestinal tract from acid, proteases, pathogenic microorganisms and mechanical trauma. Expression of the gene was highest in the stomach and gallbladder, with weaker expression in the terminal ileum and right colon. Mucin glycoproteins play a key role in the normal function of the epithelium lining the gastrointestinal tract.

REFERENCE

1. Reid, C. J.; Harris, A. : Developmental expression of mucin genes in the human gastrointestinal system. *Gut* 42: 220-226, 1998.
2. Toribara, N. W.; Robertson, A. M.; Ho, S. B.; Kuo, W.-L.; Gum, E.; Hicks, J. W.; Gum, J. R., Jr.; Byrd, J. C.; Siddiki, B.; Kim, Y. S. : Human gastric mucin: identification of a unique species by expression cloning. *J. Biol. Chem.* 268: 5879-5885, 1993.