



Product Information Sheet

Monoclonal Anti-Mucin Gastric (Sephacrose Bead Conjugate)

Catalogue No. MA1061-S

Immunogen

Mucin from human ovarian cyst fluid.

Lot No. 08A12

Purification

Clone: MG-31

Purified by the goat anti-mouse IgG affinity chromatography.

Ig type: mouse IgG1

Formulation

50% slurry in PBS pH 7.2 with 0.01mg NaN₃ preservative.

Size: 200µl

Specificity

Human..

No cross reactivity with other proteins.

Storage

Store at 4°C for frequent use.

Recommended application

Immunoprecipitation(IP)

Description:

This Antagene antibody is immobilized via covalent binding of primary amino groups to N-hydroxysuccinimide (NHS)-activated sephacrose beads. It is useful for immunoprecipitation assays

BACKGROUND

MUC1 is a large cell surface mucin glycoprotein expressed by most glandular and ductal epithelial cells and some hematopoietic cell lineages. It is expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. It is expressed abundantly in lactating mammary glands and overexpressed abundantly in >90% breast carcinomas and metastases. Transgenic MUC1 has been shown to associate with all four cecB receptors and localize with erbB1 (EGFR) in lactating glands. The MUC1 gene contains seven exons and produces several different alternatively spliced variants. The major expressed form of MUC1 uses all seven exons and is a type 1 transmembrane protein with a large extracellular tandem repeat domain. The tandem repeat domain is highly O glycosylated and alterations in glycosylation have been shown in epithelial cancer cells.

REFERENCE

1. Lu, W.; Hisatsune, A.; Koga, T.; Kato, K.; Kuwahara, I.; Lillehoj, E. P.; Chen, W.; Cross, A. S.; Gendler, S. J.; Gewirtz, A. T.; Kim, K. C. : Cutting edge: enhanced pulmonary clearance of *Pseudomonas aeruginosa* by Muc1 knockout mice. *J. Immun.* 176: 3890-3894, 2006.
2. Sood, R.; Zehnder, J. L.; Druzin, M. L.; Brown, P. O. : Gene expression patterns in human placenta. *Proc. Nat. Acad. Sci.* 103: 5478-5483, 2006.
3. Wei, X.; Xu, H.; Kufe, D. : MUC1 oncoprotein stabilizes and activates estrogen receptor alpha. *Molec. Cell* 21: 295-305, 2006.

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