



Product Information Sheet

Monoclonal Anti-Episialin, EMA

Catalogue No. MA1039 Immunogen

Human milk fat globule membranes.

Lot No. 08A12

Purification

Clone: EMA-39 Purified by the goat anti-mouse IgG affinity chromatography.

Ig type: mouse IgG1 Application

Immunohistochemistry(P)

Size: 100µg/vial At 2-4µg/ml to detect EMA in formalin fixed and paraffin embedded

tissues.

Specificity *Immunohistochemistry(F)*

Human. At 2-4µg/ml to detect EMA in formalin or acetone fixed tissues.

No cross reactivity with other Other applications have not been tested.

proteins. Optimal dilutions should be determined by end user.

Recommended application Formulation

Immunohistochemistry(P) Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg

Immunohistochemistry(F) 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:

Antagene, Inc. Storage

Toll Free: 1(866)964-2589 At -20°C for one year. After reconstitution, at 4°C for one month. It

email: Info@antageneinc.com can also be aliquotted and stored frozen at -20°C for longer time.

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 cebB 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.