

## 12-9467: Anti-MUC1 antibody(DMC493); IgG1 Chimeric mAb

|                           |   |
|---------------------------|---|
| <b>Clonality :</b>        | Monoclonal  |
| <b>Clone Name :</b>       | DMC493  |
| <b>Application :</b>      | FACS  |
| <b>Reactivity :</b>       | Human   |
| <b>Uniprot ID :</b>       | P15941  |
| <b>Alternative Name :</b> | ADMCKD; ADMCKD1; CA 15-3; CD227; EMA; H23AG; KL-6; MAM6; MCD; MCKD; MCKD1; MUC-1; MUC-1/SEC; MUC-1/X; MUC1/ZD; PEM; PEMT; PUM |
| <b>Isotype :</b>          | Rabbit/Human Fc chimeric IgG1   |

### Description

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This gene encodes a membrane-bound protein that is a member of the mucin family. Mucins are O-glycosylated proteins that play an essential role in forming protective mucous barriers on epithelial surfaces. These proteins also play a role in intracellular signaling. This protein is expressed on the apical surface of epithelial cells that line the mucosal surfaces of many different tissues including lung; breast stomach and pancreas. This protein is proteolytically cleaved into alpha and beta subunits that form a heterodimeric complex. The N-terminal alpha subunit functions in cell-adhesion and the C-terminal beta subunit is involved in cell signaling. Overexpression; aberrant intracellular localization; and changes in glycosylation of this protein have been associated with carcinomas. This gene is known to contain a highly polymorphic variable number tandem repeats (VNTR) domain. Alternate splicing results in multiple transcript variants.

### Product Info

|                            |   |
|----------------------------|---|
| <b>Amount :</b>            | 10 µg / 100 µg  |
| <b>Purification :</b>      | Purified from cell culture supernatant by affinity chromatography   |
| <b>Content :</b>           | Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.  |
| <b>Storage condition :</b> | Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature. |

### Application Note

FACS 1:100

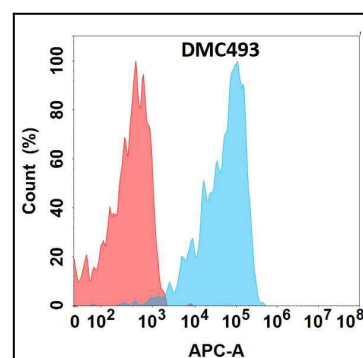


Figure 1. Flow cytometry analysis with Anti-MUC1 (DMC493) on Expi293 cells transfected with human MUC1 (Blue histogram) or Expi293 transfected with irrelevant protein (Red histogram).