



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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## Muc1. Mouse Monoclonal Antibody

### BACKGROUND

Muc1 is a heavily O-glycosylated transmembrane protein expressed on most secretory epithelium, including mammary gland and some hematopoietic cells. It is expressed abundantly in lactating mammary glands and overexpressed in >90% breast carcinomas and metastases. In normal mammary gland it is expressed in apical surface of glandular epithelium. In breast cancer Muc1 is overexpressed; is underglycosylated and the apical localization is lost. Muc1 is transcribed as a larger precursor which is cleaved to form a larger mucin like subunit (265-400kDa) and a smaller subunit (14-28kDa) noncovalently associated with each other. Transgenic Muc1 has been shown to associate with all four erbB receptors and localize with erbB1 (EGFR) in lactating glands<sup>1</sup>. Muc1 can act as a ligand for ICAM-1 on HUVEC cells; it can bind  $\beta$ -catenin, GSK3 $\beta$  and it associates with Grb2-SOS upon phosphorylation.

### IMMUNOGEN

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with live human breast cancer cells (cell line ZR-75-1) and mouse myeloma SP2 cells.

### POSITIVE CONTROL/TISSUE EXPRESSION

MCF-7 and T47D cells

### COMMENTS

The antibody reacts with the extracellular 12-mer GVTSAPDTRPAP epitope of the MUC-1 tandem repeat. Antibody can be used for immunohistochemistry on frozen and paraffin embedded tissues and ELISA. Optimal concentration should be evaluated by serial dilutions.

### ORDERING INFORMATION

**CATALOG NUMBER**

X1603M

**SIZE**

100  $\mu$ g

**FORM**

Unconjugated

**HOST/CLONE**

Mouse Clone VU-3C6

**FORMULATION**

Provided as solution in phosphate buffered saline with 0.08% sodium azide

**CONCENTRATION**

See vial for concentration

**ISOTYPE**

IgG1

**APPLICATIONS**

Immunohistochemistry (Frozen & Paraffin), ELISA, WB

**SPECIES REACTIVITY**

Human

**ACCESSION NUMBER**

.

**PURIFICATION**

Protein A/G Chromatography

**SHIP CONDITIONS**

Ship at ambient temperature, freeze upon arrival

**STORAGE CUSTOMER**

Product should be stored at -20°C. Aliquot to avoid freeze/thaw cycles

**STABILITY**

Products are stable for one year from purchase when stored properly

**REFERENCES**

1. Schol, D.J. et al., Epitope fingerprinting using overlapping 20-mer peptides of the MUC 1 tandem repeat sequence. Tumor Biol. Suppl. 1998: 19, 35-45.
2. Price, M.R. et al., Analysis of 56 monoclonal antibodies against the MUC1 mucin. Tumor Biol. Suppl. 1998: 19, 1-20.
3. Cao, Y. et al., Immunohistochemical characterization of a panel of 56 anti bodies with normal human small intestine, colon, and breast tissues. Tumor Biol. Suppl. 1998: 19, 88-99