

# Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

# Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
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# Muc1. Mouse Monoclonal Antibody Episialin

#### 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 glands1. 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.

### **ORDERING INFORMATION**

**CATALOG NUMBER** 

X1602M

Size

100 μg

FORM

Unconjugated

HOST/CLONE

Mouse Clone VU-4H5

**FORMULATION** 

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

CONCENTRATION

See vial for concentration

**I**SOTYPE

lgG1

**APPLICATIONS** 

Immunohistochemistry (Frozen & Paraffin), ELISA, Western Blot

SPECIES REACTIVITY

Human

ACCESSION NUMBER

P15941, Human

#### **I**MMUNOGEN

Hybridoma produced by the fusion of splenocytes from BALB/c mice immunized with a Muc1 60mer tandem repeat NH2-(VTSAPDTRPAPGSTAPPAHG)<sub>3</sub>-COOH and mouse myeloma SP2 cells.

### Positive Control/Tissue Expression

MCF-7 and T47D cells

#### **C**OMMENTS

Antibody can be used for immunohistochemistry on frozen and paraffin embedded tissues, ELISA and Western blotting. Optimal concentration should be evaluated by serial dilutions. Antibody can only detect Muc1 if the threonine residue of the PDTRPAP of the tandem repeat region is non-glycosylated<sup>4</sup>.

### **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. Mommers E C, et al. 'Abberant expression of MUC1 mucin in ductal hyperplasia and ductal carcinoma In situ of the breast.' Int J Cancer 1999: 84:466-469.
- 2. 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.
- 3. Ryuko K et al. 'Characterization of a new MUC1 monoclonal antibody (VU-2-G7) directed to the glycosylated PDTR sequence of MUC1.' Tumor Biology 2000: 21, 197-210.
- 4. ten Berge, R.L., et al. 'MUC1 (EMA) is preferentially expressed by ALK positive anaplastic large cell lymphoma, in the normally glycosylated or only partly hypoglycosylated form.' J. Clin. Pathol. 2001, 54, 933-939.
- 5. Treon, S.P., et al. 'Muc-1 Core Protein Is Expressed on Multiple Myeloma Cells and Is Induced by Dexamethasone.' Blood 1999, 93, 1287-1298.

PRODUCT SPECIFIC REFERENCES