

# Datasheet



Mouse mAb to **MUC1 / EMA /  
PEM / CD227**  
Clone **VU-3D1**  
Isotype **IgG1-κ**

## Source

A BALB/c mouse was immunized with ZR-75-1 breast cancer cells.  
Fusion partner: SP2/0.

## Specifications

VU-3D1 reacts with the protein core of MUC1, an apical cell side epithelial marker which is upregulated or switched on in the majority of carcinomas. The dominant epitope of VU-3D1 is SAPDTRPA, located in the VNTR domain of MUC1. VU-3D1 was typed at the ISOBM TD-4 workshop.

## Species reactivity

Positive: human.

## Applications

VU-3D1 can be used for immunohistochemistry, ELISA and fluorescence tests.

ELISA	Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections
+	+	+	+	Periodic acid

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.

Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

## Dilution advice

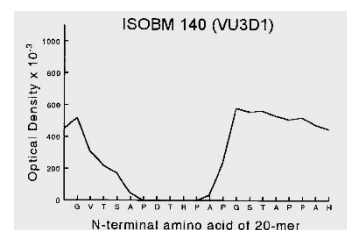
- ELISA (solid phase: 0,1-100 µg/ml; tracer: 0,001-100 µg/ml for 30 min at RT).
- Flow Cytometry (0,5-1,0 µg/million cells in 0,1 ml).
- Immunofluorescence (1-2 µg/ml).
- Immunohistology (formalin-fixed: 1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissues is enhanced by pre-incubation of sections in 20mM periodic acid in 50mM acetate buffer pH 5.0 for 30 minutes at RT in the dark).

## Positive control

MCF-7 or MDA-231 cells. Breast, colon, ovarian, endometrial carcinoma.

## References

- ISOBM TD-4 Workshop report, *Tumor Biol.* **19(Suppl 1)** (1998).
- Karsten, U. et al. *Cancer. Res.* **58(12)**: 2541-2549 (1998).



**Figure 1:** Epitope of VU-3D1 as determined by epitope fingerprinting