

Datasheet



Mouse mAb to **MUC1 / EMA /
PEM / CD227**
Clone **VU-2G7**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with VNTR 60mer glycosylated synthetic peptide BSA conjugate.
Fusion partner: SP2/0.

Specifications

VU-2G7 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-2G7 includes the PDTR motif, located in the VNTR domain of MUC1. Binding of VU-2G7 is significantly enhanced when the threonine of the PDTR motif bears a GalNAc.

Species reactivity

Positive: human.

Applications

VU-2G7 can be used for immunohistochemistry, ELISA and fluorescence tests.

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

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).

Positive control

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

References

- Ryuko, K. et al. *Tumor Biol.* **21(4)**: 197-210 (2000).
- Karsten, U. et al. *Cancer. Res.* **58(12)**: 2541-2549 (1998).

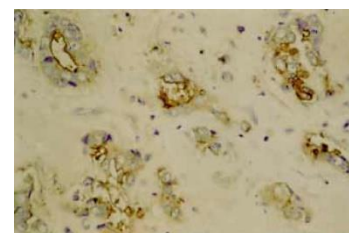


Figure 1: Breast cancer stained by VU-2G7 (paraffin)

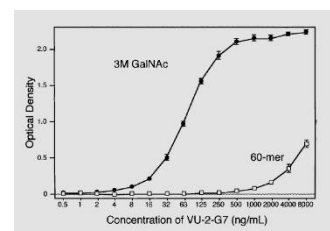


Figure 2: VU-2G7 reactivity on 60mer-VNTR (60-mer) versus glycosylated 60mer-VNTR peptide (3M GalNAc)