Datasheet

Mouse mAb to **MUC1 / EMA / PEM / CD227**
Clone **2E2A9**
Isotype **IgM-κ**

Source

A BALB/c mouse was immunized with 60-mer MUC1 VNTR synthetic peptide conjugated to BSA.
Fusion partner: Sp2/0.

Specifications

2E2A9 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 epitope of 2E2A9 is located in the VNTR domain of MUC1.

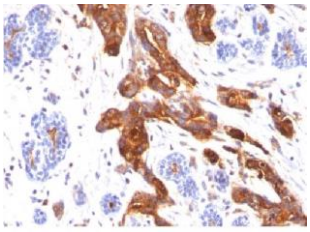

Figure 1: Human breast cancer stained for MUC1 (frozen)

Species reactivity

Positive: human.

Applications

2E2A9 is excellent for cryostat sections. It can further be used in 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 (1-2 µg/ml for 30 min at RT; an appropriate antigen retrieval method for staining of formalin-fixed tissues has not been established to date).

Positive control

MCF-7 or MDA-231 cells. Breast, colon, ovarian, endometrial carcinoma, MUC1 VNTR peptide.

References

- Karsten U, et al, *Cancer Res.* **58**: 2541-2549 (1998).
- Stanley CM, et al, *Am J Physiol.* **277(1 Pt 1)**: G191-200 (1999).
- Hilkens J, et al, *Int. J. Cancer* **34**: 197-206 (1984).