

Datasheet



Mouse mAb to **MUC1 / EMA / PEM / CD227**
Clone **VU-4H5**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with 60-mer MUC1 VNTR synthetic peptide conjugated to BSA.
Fusion partner: SP2/0.

Specifications

VU-4H5 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-4H5 is PDTR, located in the VNTR domain of MUC1. In tissue sections, VU-4H5 also displays prominent staining of the cytoplasm. VU-4H5 was typed at the ISOBM TD-4 workshop.

Species reactivity

Positive: human.

Applications

VU-4H5 is excellent for immunohistochemistry. It can also be used in ELISA and fluorescence tests.

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

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 requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 min).

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).

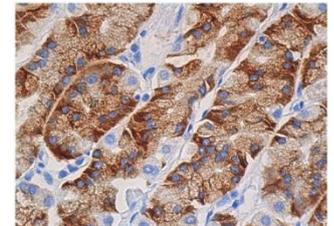


Figure 1: Human stomach stained with VU-4H5 (paraffin)

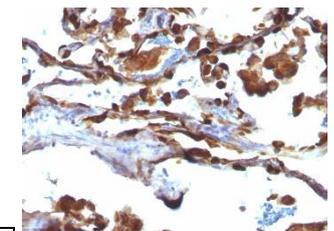


Figure 2: Human lung stained with VU-4H5 (paraffin)

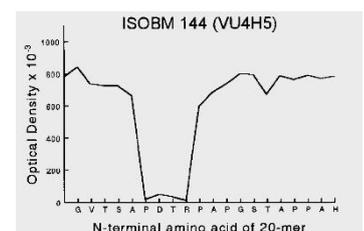


Figure 3: Epitope of VU-4H5 as determined by epitope fingerprinting