

Datasheet



Mouse mAb to **MUC1 / EMA /
PEM / CD227**
Clone **EBS-T-235**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with neuraminidase-treated T-47D cells.
Fusion partner: X63-Ag8.653.

Specifications

EBS-T-235 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 EBS-T-235 is APDTRP, located in the VNTR domain of MUC1. Binding of EBS-T-235 is enhanced after glycosylation of the DTR motif.

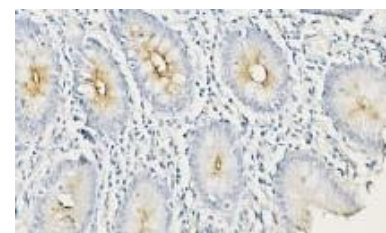


Figure 1: Human colon stained with EBS-T-235 (paraffin; periodic acid pretreatment)

Species reactivity

Positive: human.

Applications

EBS-T-235 can be used for immunohistochemistry. In ELISA it is a good tracer antibody. It can also be used in 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.

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References

- ISOBM TD-4 Workshop report, *Tumor Biol.* **19(Suppl 1)** (1998).
- Karsten, U. et al. *Cancer. Res.* **58(12)**: 2541-2549 (1998).
- Baldus, S.E, et al. *Histol. Histopathol.* **14(4)**:1153-8 (1999).
- Cao, Y, et al. *J Histochem Cytochem.* **45(11)**:1547-1557 (1997).