Datasheet

Mouse mAb to MUC5AC/M1 Clone 9-13M1 Isotype IgG1- κ



Source

A BALB/c mouse was immunized with mucin isolated from an ovarian cyst fluid (pure endocervical type according to the Fenoglio's classification) from an ALe^b patient.

Fusion partner: Sp2/0.

Specifications

9-13M1 recognizes the peptide core of gastric mucin M1/MUC5AC), and more specifically with the 'd' epitope amongst the a, b, c, d, e, f, g and h protein core epitopes defined by Bara for M1. 9-13M1 and 2-11M1 react exclusively with epitopes located in the the N-terminal cysteine-rich part of the peptide core MUC5AC. MUC5AC is present in primary ovarian mucinous cancer and gastric cancer, but usually absent in colorectal adenocarcinoma, thus showing an expression pattern opposite to MUC2. Anti-MUC5AC may be useful for differential identification of primary mucinous ovarian tumors from colon adenocarcinoma metastatic to the ovary. MUC5AC antibodies may also be useful for identification pancreatic carcinoma and pre-cancerous changes vs. normal pancreas.



Figure 1: Human stomach stained with 9-13M1 (paraffin)

Species reactivity

Positive: cat, cow, human, monkey, mouse.

Negative: rat.

Applications

9-13M1 reacts with MUC5AC after protease/periodate pretreatment. Immunoblotting: strongly positive without bethamercaptoethanol pretreatment of mucin solution. ELISA or IRMA in combination with 1-13M1 or in a mixture of anti-M1 mAbs in combination with 1-13M1.

ELISA	Frozen sections	Paraffin sections	Western blot
+	+	Protease/periodate	+

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

- \triangleright ELISA (solid phase: 0,1-100 μg/ml; tracer: 0,001-100 μg/ml for 30 min at RT).
- \triangleright Immunoblotting (1-2 µg/ml).
- Immunohistology (1-2 μg/ml for 30 min at RT; staining of formalin-fixed tissues requires 0,1% pronase digestion (0,1% CaCl₂, 0,1N NaOH) for 15min. at 37°C; staining is enhanced by subsequent incubation in 20mM periodic acid in 50mM acetate buffer pH 5.0 for 30 minutes at RT in the dark).

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Positive control

Stomach, gastric cancer.

References

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- Lidell, M.E et al. *FEBS J.* **275**: 481-489 (2008).