

Datasheet



Mouse mAb to **CD176/TF Antigen**
Clone **EBS-CD-054**
Isotype **IgM-κ**

Source

A BALB/c mouse was immunized with neuraminidase-treated human red blood cells.
Fusion partner: X63-AG8.653.

Specifications

EBS-CD-054 recognizes the carbohydrate epitope Thomsen-Friedenreich (asialo-glycophorin; Gal β 1-3GalNAc). It is specific for both anomeric forms of this disaccharide (TF α and TF β , including related structures on glycolipids). Immunoblotting with human acute myelogenous leukemia cells revealed a series of TF-active glycoproteins with a main band at about 155 kDa. It shows no cross-reactivity with sialylated glycophorin. Human cells normally do not carry Thomsen-Friedenreich antigen. Only after malignant transformation the antigen may appear and is thus considered a pan-carcinoma marker. EBS-CD-054 was typed at the 7th CD-Workshop.

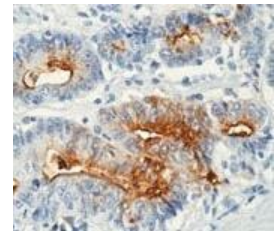


Figure 1: Human colon cancer stained with EBS-CD-054 (paraffin).

Species reactivity

Positive: human.

Applications

EBS-CD-054 can be applied for the detection of cells with TF-antigens and is especially applicable for sensitive determination of neuraminidase. EBS-CD-054 can be used on frozen and paraffin-fixed tissues sections and is capable to agglutinate desialylated red blood cells.

ELISA	Frozen sections	Paraffin sections	Western blot
+	+	+	+

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: not known; tracer: 0,001-100 μ g/ml for 30 min at RT).
- Immunoblotting (1-2 μ g/ml).
- Immunohistology (1-2 μ g/ml for 30 min at RT).

Positive control

KG1 cells or human colorectal carcinoma tissues.

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References

- Karsten U. et al, *Hybridoma* **14(1)**: 37-44 (1995).
- Cao Y. et al, *Histochem Cell Biol* **106**: 197-207 (1996).
- Baldus SE et al, *Cancer* (1998), **82(6)**:1019-27.
- Ryder SD et al, *Gastroenterology* **114(1)**: 44-9 (1998).
- Kanitakis J et al, *J Clin Pathol* **51(8)**: 588-92 (1998).