

Datasheet



Mouse mAb to **Blood Group A (CD173)**
Clone **3-3A**
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).
Fusion partner: SP2/0.

Specifications

3-3A reacts with determinants of chain A type 3 and 4 and chain H type 3 and 4, but not with type 1 and 2 chain structures. It is not reactive with immunodominant A trisaccharide. Increased expression of this antigen has been observed on some tumor tissues such as gastric carcinomas, urothelial carcinomas, and colon carcinomas. 3-3A does not react with normal tissue sections of donors with blood group B and 0 but it reacts specifically with malignant tissues in these individuals.

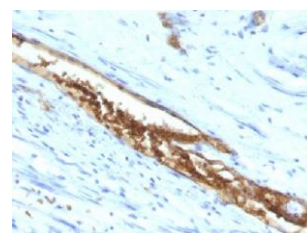


Figure 1: Colon carcinoma stained with 3-3A (paraffin)

Species reactivity

Positive: human.

Applications

3-3A is applicable for tissue staining and immunofluorescence tests. 3-3A is not applicable for red cell agglutination.

Agglutination	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 live is at least 24 months after purchase.

Dilution advice

- Flow Cytometry (0,5 – 1,0 µg / million cells in 0,1 ml).
- Immunofluorescence (0,5 – 1,0 µg/ml).
- Immunohistology (formalin-fixed: 1-2 µg/ml for 30 min at RT; 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

KG1 cells or human colorectal carcinoma.

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References

- Blood transfusion and immunohematology, Ph Rouger, D Anstee and CH Salmon (Eds) – Arnette, France **30 (5)** 252-720, (1987).
- Bara, J. et al. *Biochem. J.* **254**: 185-193 (1988).
- Yasumsds, I. et al. *Glycoconjugate J.* **3**: 187-202 (2000).