

# Datasheet



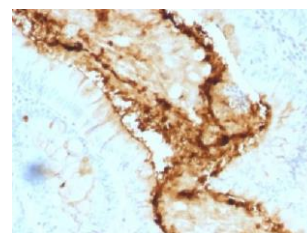
Mouse mAb to **CD174 (Le<sup>Y</sup>) and histone H1**  
Clone **EBS-CD-049**  
Isotype **IgG1-κ**

## Source

A BALB/c mouse was immunized with neuraminidase-treated live T-47D breast carcinoma cells.  
Fusion partner: SP2/0.

## Specifications

EBS-CD-049 recognizes Le<sup>Y</sup> (CD174) and to some extent Le<sup>b</sup>. EBS-CD-049 displays no cross-reactivity with blood group antigens A, B, Le<sup>a</sup>, Le<sup>x</sup>, Sialyl-Le<sup>a</sup>, Sialyl-Le<sup>x</sup>, nor with H type 1, type 2, or type 3, nor with 74 other synthetic oligo- and mono-saccharides tested (minimal reactivity exists to Globo-H). In addition, a protein conformational epitope on human and bovine histone H1 is detected (mimicry). Histones H2A, H2B, H3 and H4 are not detected.



**Figure 1:** Colon cancer stained with EBS-CD-049 (paraffin).

## Species reactivity

Positive: cow, human.

## Applications

EBS-CD-049 can be used on frozen and paraffin-fixed tissues sections. It can also be used in Western blotting or histone H1.

ELISA	Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections	Western blotting
+	+	+	+	+	+

## Format

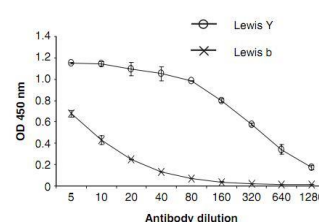
Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02% sodium azide.  
Stored at 4°C-8°C, shelf life is at least 24 months after purchase.

## Dilution advice

- ELISA (solid phase: not known; tracer: 0,001-100 µg/ml for 30 min at RT).
- Immunoblotting (1-2 µg/ml).
- Immunofluorescence (0,5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT).

## Positive control

Breast or colorectal cancer.



**Figure 2:** Preferential binding of EBS-CD-049 to Le<sup>Y</sup> over Le<sup>b</sup> (ELISA).

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## References

- Christensen P.A. et al, *Scand J Immunol.* **65(4)**: 362-367 (2007).
- Karsten U. et al, *Differentiation*, **54**: 55-66 (1993).