

Datasheet



Mouse mAb to **Keratin 13 + 10**
Clone **EBS-IF-003**
Isotype **IgG2a-κ**

Source

A hybrid (H2d) mouse was immunized with a cytoskeleton preparation from HeLa cells.
Fusion partner: Sp2/0.

Specifications

EBS-IF-003 reacts with 53kDa (CK13) and 56.6kDa (CK10) cytokeratin proteins as indicated by immunoblotting. On formalin-fixed, paraffin-embedded tissue sections EBS-IF-003 recognizes only CK13. On cryostat sections EBS-IF-003 serves as differentiation-related marker of all stratified epithelia; it stains all suprabasal cells in both cornifying and non-cornifying stratified epithelia and more differentiated cells of squamous carcinomas. In paraffin sections EBS-IF-003 does not stain CK10 positive, CK13 negative epithelia, as for example epidermis.

Species reactivity

Positive: cat, dog, human.

Applications

Demonstration of keratin 13 in immunohistochemistry, immunofluorescence tests and immunoblotting.

Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections	Western blot
+	+	+	CK13 (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 life is at least 24 months after purchase.

Dilution advice

- Flow Cytometry (1-2 µg/million cells in 0.1 ml, fix cells in 4% PFA for 10 min, at 4°C, permeabilize with 0,2% saponin or digitonin for 15 min, at 4°C).
- Immunoblotting (1-2 µg/ml).
- Immunofluorescence (1-2 µg/ml).
- Immunohistology (formalin-fixed: 2-4 µg/ml for 30 min at RT; staining of formalin-fixed tissues better after boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes).

Positive control

A431, HeLa, MCF7 cells. Tonsil, esophageal or bladder carcinoma.



Figure 1: Hunan tonsil stained with EBS-IF-003 (paraffin)



Figure 2: Hunan tonsil stained with EBS-IF-003 (paraffin)

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References

- Ivanyi D. et al, *J. Pathol.* **159**: 7-12 (1989).
- Ivanyi D. et al, *Am. J. Vet. Res.* **53**: 304-314 (1992).
- Ivanyi D. et al, *Am. J. Vet. Res.* **54**: 1095-1102 (1993).
- Kozaki, M et al, *J. Vet. Med. Sci.* **63(1)**: 1-4 (2001).