

Datasheet



Mouse mAb to **Keratin 18**
Clone **DC10**
Isotype **IgG1-κ**

Source

A hybrid mouse (BALB/c x B6) was immunized with a PMC-42 human breast carcinoma cell line.
Fusion partner: SP2/0.

Specifications

DC10 reacts with human keratin 18 (45kD), found in a wide variety of simple epithelia. It does not react with stratified squamous epithelia. Cytokeratin 18, which belongs to the type A (acidic) subfamily of low molecular weight keratins, exists in combination with cytokeratin 8. Gastrointestinal tract tissues are positive for both cytokeratin 8 and 18 but do not contain cytokeratin 14. Furthermore, respiratory tract and urogenital tract, as well as endocrine and exocrine tissues and mesothelial cells are positive for keratin 18.

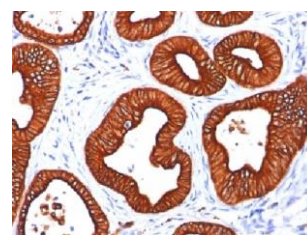


Figure 1: Colon carcinoma stained with DC10 (paraffin)

Species reactivity

Positive: human.
Negative: cow, dog, ferret, hamster, mouse, pig, rat, sheep.

Applications

Keratin 18 antibodies reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.

Flow cytometry	Frozen sections	Immunofluorescence	Paraffin sections	Western blot
+	+	+	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

MCF-7, HeLa cells, Breast Cancer.



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References

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- Kovařík et al. *J. Tumor Marker Oncol.* **5**, 219 (1990).
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