

# Datasheet



Mouse mAb to **Keratin 18**  
Clone **C-04**  
Isotype **IgG1-κ**

## Source

A hybrid (BALB/c x B6) mouse was immunized with a cytoskeleton preparation of human A431 carcinoma cell line.  
Fusion partner: Sp2/0.

## Specifications

C-04 Reacts with keratin 18 (45kDa) present in a wide variety of simple epithelia. It does not react with stratified squamous epithelia. It reacts with epithelial tumors of the gastrointestinal tract, lung, breast, pancreas, ovary, and thyroid.

## Species reactivity

Positive: cat, cow, dog, ferret, goat, hamster, horse, human, marmoset, mouse, pig, rat, sheep.

## Applications

Immunohistochemistry on frozen and paraffin sections. Dominant positive structures include a wide variety of simple epithelia, urinary bladder transitional epithelia. Positive in fluorescence tests and immunoblotting.

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

## Format

Produced in tissue culture, contains no host Ig. Antibodies are affinity purified and presented in PBS with 0,02 % sodium azide.

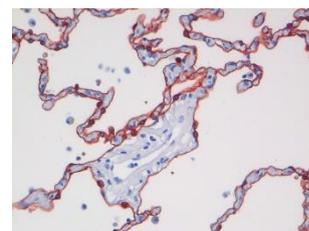
Stored at 4°C- 8°C, shelf life is at least 24 months after purchase.

## Dilution advice

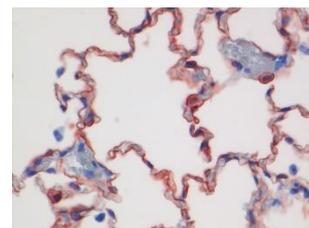
- Flow Cytometry (1-2 µg/million cells in 0,1 ml, fix cells in 4% PFA for 10 min, at 4°C, permeabilize with 0,2% saponin or digitonin for 15 min, at 4°C).
- Immunoblotting (1-2 µg/ml).
- Immunofluorescence (0.5-1,0 µg/ml).
- Immunohistology (1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissues requires 0,1% pronase digestion (0,1% CaCl<sub>2</sub>, 0,1N NaOH) for 15min. at 37°C).

## Positive control

MCF-7, HeLa cells, breast cancer.



**Figure 1:** Human alveoli stained with C-04 (paraffin)



**Figure 2:** Ferret alveoli stained with C-04 (paraffin)

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## References

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- Bártková et al. *Neoplasma* **38(4)**: 439-46 (1991).
- Lauerová et al. *Hybridoma* **7**: 495-504 (1988).
- Kovařík et al. *Int. J. Cancer Suppl.* **3**: 50-5 (1988).
- Taylor –Papadimitriou et.al. *J. Cell Sci.* **94**: 403-13 (1989).
- Vojtěšek et al. *Folia Biol.* **35(6)**: 373-382 (1989).
- Kovařík et al. *J. Tumor Marker Oncol.* **5**: 219 (1990).