

Datasheet



Mouse mAb to **Keratin 8+18**
Clone **C-51**
Isotype **IgG1-κ**

Source

A BALB/c mouse was immunized with a cytoskeleton preparation from HeLa cells.
Fusion Partner: Sp2/0.

Specifications

C-51 reacts with keratin 8 (52.5 kDa) + 18 (45 kDa) polypeptides and recognizes all simple epithelia including glandular epithelium, for example thyroid, female breast, gastrointestinal tract, respiratory tract, and urogenital tract including transitional epithelium. All adenocarcinomas and most squamous carcinomas are positive but keratinizing squamous carcinomas are usually negative. This antibody is useful in demonstrating the presence of Paget cells; there is very little keratin 18 in the normal epidermis so only Paget cells are stained.

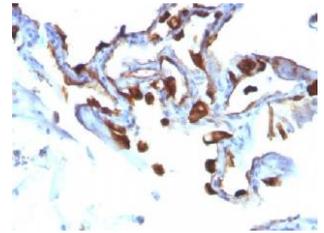


Figure 1: Human lung stained with C-51 (paraffin)

Species reactivity

Positive: cow, human, monkey, pig, sheep.
Negative: chicken, dog, ferret, hamster, mouse, *Xenopus laevis*.

Applications

C-51 can be used on paraffin sections using either citrate or protease pre-treatment.

| Flow cytometry | Frozen sections | Immunofluorescence | Paraffin sections | Western blot |
|----------------|-----------------|--------------------|-------------------|--------------|
| + | + | + | Citrate/protease | + |

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 (2-4 µg/ml for 30 min at RT; staining of formalin-fixed tissues requires boiling tissue sections in 10mM citrate buffer, pH 6.0, for 10-20 min followed by cooling at RT for 20 minutes, or digestion with trypsin at 1 mg/ml PBS, 15 min at RT).

Positive control

MCF-7 or A431 cells. Skin, colon, lung or breast carcinoma.

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References

- Bártek et al. *J. Pathol.* **164**: 215-24 (1991).
- Bártková et al. *Neoplasma* **38(4)**: 439-46 (1991).
- Wendl, J. et al. *Anat. Histol Embryol.* **164**: 215-24 (1991).
- Thangappan, R et al. *Cell. Polif.* **42**: 770-779 (2009).
- Imbalzano, KL, et al. *PLoS.One.* **8**: e55628 (2013).