

Datasheet



Mouse mAb to **Tubulin (alpha)**
Clone **TU-02**
Isotype **IgM-κ**

Source

A BALB/c mouse was immunized with microtubular protein from pig brain.

Specifications

TU-02 reacts with the N-terminal domain of alpha-tubulin. Tubulin isotypes have been identified with tissue specific expression. Immunocytochemical studies using several mAbs revealed remarkable heterogeneity of tubulin within various nervous tissues. TU-02 reacts with tubulin in fixed tissues only, not in unfixed or live tissues or cells. Interphase microtubules are also stained by TU-02 in fixed tissues.

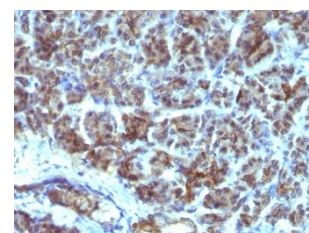


Figure 1: Human pancreas stained with TU-02 (paraffin)

Species reactivity

Positive: human, mouse, pig, plants (a.o. *Nicotiana tabacum*), rat.

Applications

Besides for nerve staining, TU-02 can be applied for a large number of human epithelial and endothelial tissues. It is strongly reactive with the granular cell layer, weakly with the basal and the squamous layer and unreactive with the horny layer of the epidermis or dermis. TU-02 is weakly reactive with connective tissue cells in the dermis and moderately reactive with endothelial cells of blood vessels. It shows strong activity with the epithelium of the trachea and large bronchi, with pancreas and bladder.

ELISA	Frozen sections	Immunofluorescence	Paraffin sections	Western blot
+	+	-	-	-

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.

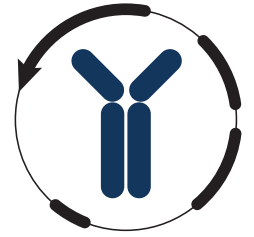
Dilution advice

- ELISA (solid phase: not known; tracer: 0,001-100 µg/ml for 30 min at RT).
- Immunohistology (formalin-fixed: 1-2 µg/ml for 30 min at RT; staining of formalin-fixed tissues is enhanced 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

Pancreas, bladder, skin, brain.

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References

- Dráber, P. et. al. *Eur.J.Cell.Biol.* **41**: 82-88 (1986).
- Dráber, P. et. al. *Histochemistry* **87**: 151-155 (1987).
- Dráber, P. et. al. *J. Cell Science* **92**: 519-528 (1989).
- Smertenko et al. *Eur. J. Cell. Biol.* **72**: 104-112 (1997).