# PRODUCT INFORMATION



### α-Tubulin (C-Term) Rabbit Monoclonal Antibody - Biotinylated (Clone RM113)

Item No. 32376

#### **Overview and Properties**

Contents: This vial contains 50 µl of protein A-affinity purified monoclonal antibody.

Synonym: α-Tubulin Chain

Peptide from the C-terminal region of  $\alpha$ -tubulin Immunogen:

Cross Reactivity: (+) α-Tubulin 1A, α-Tubulin 1B

Species Reactivity: Species independent

Form: Liquid

-20°C (as supplied) Storage:

Stability: ≥1 year

Storage Buffer: PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide

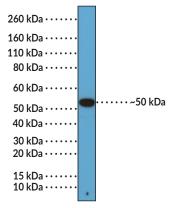
Clone: RM113 Host: Rabbit Isotype: **IgG** 

Applications: Immunocytochemistry (ICC) and Western blot (WB); the recommended starting dilution

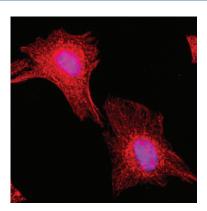
is 1:200 for ICC and 1:1,000 for WB. Other applications were not tested, therefore

optimal working concentration/dilution should be determined empirically.

#### **Images**



WB of A431 cells using  $\alpha$ -Tubulin (C-Term) Rabbit Monoclonal Antibody -Biotinylated (Clone RM113) at a dilution of 1:1,000.



Immunofluorescent labeling of HeLa cells with α-Tubulin (C-Term) Rabbit Monoclonal Antibody Biotinylated (Clone RM113) at a 1:200 dilution (red), Nuclei have been labeled with DAPI (blue).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website

Copyright Cayman Chemical Company, 03/12/2024

CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897

[734] 971-3335

FAX: [734] 971-3640 CUSTSERV@CAYMANCHEM.COM WWW.CAYMANCHEM.COM

## PRODUCT INFORMATION



### Description

 $\alpha$ -Tubulin is a cytoskeletal protein and constituent of microtubules, a cytoskeletal assembly that has roles in a variety of cellular processes, including cell motility, division, differentiation, and intracellular transport.  $^1$   $\alpha$ -Tubulin is highly conserved in eukaryotes and expressed in a cell- and isotype-specific manner.  $^2$  There are eight human  $\alpha$ -tubulin isotypes that consist of an N-terminal domain, which binds GTP and is required for microtubule self-assembly, and a variable C-terminal tail, which contains interaction sites for microtubule-associated proteins (MAPs) and is subject to a variety of post-translational modifications that regulate microtubule function and stability.  $^{1,3-5}$  Cayman's  $\alpha$ -Tubulin (C-Term) Rabbit Monoclonal Antibody Biotinylated (Clone RM113) can be used for immunocytochemistry (ICC) and Western blot (WB) applications. The antibody recognizes  $\alpha$ -tubulin at approximately 50 kDa.

#### References

- Gadadhar, S., Bodakuntla, S., Natarajan, K., et al. The tubulin code at a glance. J. Cell Sci. 130(8), 1347-1353 (2017).
- 2. Binarová, P. and Tuszynski, J. Tubulin: Structure, functions and roles in disease. Cells 8(10), 1294 (2019).
- 3. Vemu, A., Atherton, J., Spector, J.O., *et al.* Tubulin isoform composition tunes microtubule dynamics. *Mol. Biol. Cell* **28(25)**, 3564-3572 (2017).
- 4. Valiron, O. New insights into microtubule elongation mechanisms. *Commun. Integr. Biol.* **4(1)**, 10-13 (2011).
- 5. Zhang, F., Su, B., Wang, C., et al. Posttranslational modifications of α-tubulin in Alzheimer disease. Transl. Neurodegener. 4(9), (2015).

ANN ARBOR, MI 48108 · USA PHONE: [800] 364-9897