Product Information Sheet

Monoclonal Anti-α-Tubulin

Catalogue No. MA1107

Lot No. 08A12

Clone: Tub-1

Ig type: mouse IgG1

Size: 100μg/vial

Specificity

Human, rat.

No cross reactivity with other proteins.

Recommended application

Western blot

Immunohistochemistry(P)

To reorder contact us at:

Antagene, Inc.

Toll Free: 1(866)964-2589

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Immunogen

Microtubules from chicken embryo brain.

Purification

Purified by the goat anti-mouse IgG affinity chromatography.

Application

Western blot

At 2μg/ml with the appropriate system to detect α-tubulin in cells and tissues.

Immunohistochemistry(P)

At 1-2μg/ml to detect α-tubulin in formalin fixed and paraffin embedded tissues.

Other applications have not been tested.

Optimal dilutions should be determined by end user.

Formulation

Lyophilized from 1.2% sodium acetate, with 2mg BSA and 0.01mg NaN_3 as preservative.

Reconstitution

1.2% sodium acetate or neutral PBS. If 1ml of PBS is used, the antibody concentration will be 100μg/ml.

Storage

At -20˚C for one year. After reconstitution, at 4˚C for one month. It can also be aliquotted and stored frozen at -20˚C for longer time.

BACKGROUND

Alpha-tubulin (b-alpha-1) mRNA is expressed only in brain with a molecular weight of about 55,000. The 3-prime UTR of b-alpha-1 is more than 80% homologous to the UTR of the rat brain alpha-tubulin gene, IL-alpha-T1. B-alpha-1 encodes a predicted 451-amino acid protein that is 100% identical to the rat homolog and differs by only 2 and 3 amino acids from the pig and chicken homologs, respectively.

REFERENCE

1. Cowan, N. J.; Dobner, P. R.; Fuchs, E. V.; Cleveland, D. W. : Expression of human alpha-tubulin genes: interspecies conservation of 3-prime untranslated regions. Molec. Cell. Biol. 3: 1738-1745, 1983.

2. Hall, J. L.; Cowan, N. J. : Structural features and restricted expression of a human alpha-tubulin gene. Nucleic Acids Res. 13: 207-223, 1985.

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