

## Anti-Bovine $\alpha$ -Tubulin, Mouse Monoclonal Antibodies

**A-11126** anti-bovine  $\alpha$ -tubulin, mouse monoclonal 236-10501

**A-21371** anti-bovine  $\alpha$ -tubulin, mouse monoclonal 236-10501, biotin-XX conjugate

### Quick Facts

#### Storage upon receipt:

- $-20^{\circ}\text{C}$
- Desiccate

### Introduction

Molecular Probes' anti-bovine  $\alpha$ -tubulin antibody can be used with secondary detection techniques to visualize microtubules in fixed cells and in fixed or frozen tissue sections of various species. In addition, this mouse monoclonal antibody (clone 236-10501, isotype IgG<sub>1</sub>) can be used to detect tubulin by ELISA and immuno-blot, for the screening of expression libraries and, since it recognizes amino acids 65–97 of the N-terminal structural domain, as a probe for the N-terminal domain of  $\alpha$ -tubulin.

The anti-bovine  $\alpha$ -tubulin is available either unlabeled (A-11126) or as a biotin-XX conjugate (A-21371). For detection of the biotinylated antibody, Molecular Probes carries a wide selection of fluorophore-labeled or enzyme-labeled streptavidins, avidins and NeutrAvidin biotin-binding proteins. Please visit our Web site ([www.probes.com](http://www.probes.com)) for a full description.

### Materials

Anti-bovine  $\alpha$ -tubulin and the biotinylated anti-bovine  $\alpha$ -tubulin are supplied lyophilized in unit sizes of 50  $\mu\text{g}$ .

Upon receipt, the antibodies should be stored desiccated at  $-20^{\circ}\text{C}$ . To prepare a stock solution, reconstitute in phosphate-buffered saline (PBS), containing 1% bovine serum albumin (BSA) and 2 mM sodium azide. For example, to make a 200  $\mu\text{g}/\text{mL}$  stock solution, add 250  $\mu\text{L}$  of buffer directly to the vial. Reconstituted solutions should remain stable for 6 months when stored at  $4^{\circ}\text{C}$ . For longer storage, divide into aliquots and freeze at  $-20^{\circ}\text{C}$ . AVOID REPEATED FREEZING AND THAWING.

### Applications

Because protocols vary with application, the appropriate dilution of anti-tubulin should be determined empirically. We have found that this highly specific antibody can be used at much lower concentrations than anti-tubulin antibodies available from other suppliers. For immunocytochemistry applications, we recommend using an initial concentration of 1  $\mu\text{g}/\text{mL}$  or less.

### Product List Current prices may be obtained from our Web site or from our Customer Service Department.

Cat #	Product Name	Unit Size
A-11126	anti-bovine $\alpha$ -tubulin, mouse monoclonal 236-10501 .....	50 $\mu\text{g}$
A-21371	anti-bovine $\alpha$ -tubulin, mouse monoclonal 236-10501, biotin-XX conjugate .....	50 $\mu\text{g}$

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## Contact Information

Further information on Molecular Probes' products, including product bibliographies, is available from your local distributor or directly from Molecular Probes. Customers in Europe, Africa and the Middle East should contact our office in Leiden, the Netherlands. All others should contact our Technical Assistance Department in Eugene, Oregon.

Please visit our Web site — [www.probes.com](http://www.probes.com) — for the most up-to-date information

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