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RAT ANTI TUBULIN
MONOCLONAL ANTIBODY

CATALOG NUMBER: MAB1864

LOT NUMBER:

QUANTITY: 100 μg

CONCENTRATION: 1 mg/mL

SPECIFICITY: MAB1864 recognizes the α subunit of tubulin-specificity binding to so called Tyr-Tubulin, which is produced by post translational modification of tubulin. The epitope recognized by this antibody has been extensively studied and would appear to be a linear sequence requiring an aromatic residue at the C-terminus, with the two adjacent amino acids being negatively charged (represented by Gly-Gly-Tyr in Tyr-Tubulin). The antibody has been used in epitope tagging procedures to detect proteins tagged with a C-terminal Gly-Gly-Phe epitope. These sequence requirements have been reported to result in some cross-reactivity with other proteins in certain circumstances, including E. coli rec A and oxidized actin.

IMMUNOGEN: Yeast tubulin

ISOTYPE: IgG_{2a}

CLONE NAME: YL1/2

APPLICATIONS: Western Blotting
Immunohistochemistry: 1:50-1:100 on frozen sections
Immunoprecipitation
ELISA: 1:100-1:1,000
Radioimmunoassy
Optimal working dilutions must be determined by end user.

FORMAT: Purified immunoglobulin

PRESENTATION: Liquid in phosphate buffered saline (pH 7.4) with 0.09% sodium azide.

STORAGE/HANDLING: Store at -20°C in undiluted aliquots for up tp six months after date of receipt. Avoid repeated freeze-thaw cycles.

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REFERENCES: Kreda, S.M., et al., *Molecular Biology of the Cell* (2005) **16**:2154-2167.

Skinner, R.H. et al. (1991). Use of the Glu-Glu-Phe C-terminal epitope for rapid purification of the catalytic domain of normal and mutant ras GTPase-activating proteins. *J. Biol. Chem*. **266**:14163-14166.

Burns, R. (1987). Tubulin's terminal tyrosine. *Nature* **327**:103-104.

Wehland, J. et al. (1984). Amino acid sequence requirements in the epitope recognized by the alpha tubulin specific rat monoclonal antibody YL1/2. *EMBO. J.* **3**:1295-1300.

Kilmartin, J. V. et al. (1982). Rat monoclonal anti-tubulin antibodies derived by using a new non-secreting rat cell line. *J. Cell. Biol.* **93**:576-582.

For research use only; not for use as a diagnostic.

Important Note: *During shipment, small volumes of product will occasionally become entrapped in the seal of the product vial. For products with volumes of 200 μL or less, we recommend gently tapping the vial on a hard surface or briefly centrifuging the vial in a tabletop centrifuge to dislodge any liquid in the container's cap.*

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