**Anti-alpha-Tubulin Mouse Monoclonal Antibody**

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**Technical literature is available at:** [**www.mesgenbio.com**](http://www.mesgenbio.com)**. E-mail MesGen Technical Services if you have questions on use of this system: tech@mesgenbio.com**

**Catalog Number :** MAN1008 **Lot Number :** Refer to vial **Packaging Size :** 100μL□1000μL□

**Background**

There are five tubulins in human cells: alpha, beta, gamma, delta, and epsilon. Tubulins are conserved across species. They form heterodimers, which multimerize to form a microtubule filament. An alpha and beta tubulin heterodimer is the basic structural unit of microtubules. The heterodimer does not come apart once formed. The alpha and beta tubulins, which are each about 55 kDa MW, are homologous but not identical. Alpha tubulin is useful for scientists across fields as an internal control due to its high, ubiquitous expression pattern. Tubulin expression may vary according to resistance to antimicrobial and antimitotic drugs. This antibody specifically recognizes Tubulin Alpha.

**Overview**

**Reactivity :** human, mouse, rat, dog, rice, silkworm **Tested applications :** WB, IP, IHC, IF, FC, ELISA

**Calculated molecular weight :** 50 kDa **Observed molecular weight :** 52 kDa

**Properties**

**Immunogen :** alpha Tubulin fusion protein Ag18034 **Source :** Mouse **Isotype :** IgG2b **Concentration :** 1730μg/ml

**Recommended dilution:**

**WB :** 1:2000-1:10000 **IP :** 0.5-4.0 ug for IP and 1:500-1:2000 for WB **IHC :** 1:50-1:500 **IF :** 1:50-1:500

**Application notes**

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***Fig 2.*** *Immunoflurescent analysis of fixed HepG2 cells using alpha-Tubulin antibody at dilution of 1:100 and Alexa Fluor 488 conjugated AffiniPure Goat Anti-Mouse IgG(H+L)*

***Fig 1.*** *Western blot analysis of 10ug of HeLa cell lysates at dilution of :*

*Lane 1: 1:4000*

*Lane 2: 1:8000*

*Lane 3: 1:16000*

**Storage instruction**

-20°C

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