



## Mouse anti Tubulin-b Monoclonal Antibody

Alternative Name(s): Tubulin-beta; TUBB; TUBB1, 5; M40

### Order Information

- **Description:** Tubulin-b
- **Catalogue:** 500-6514
- **Lot:** See label
- **Size:** 100ug/200ul
- **Host:** Mouse
- **Clone:** ABM323
- **Application:** IHC(P), WB, IF
- **Reactivity:** Hu, Ms, Rt

### **ANTIGEN PREPARATION**

A synthetic peptide derived from Internal sequence of Tubulin beta protein. This sequence is identical to human, mouse, rat, chicken and dog species.

### **BACKGROUND**

Tubulin is the major building block of microtubules which is essential in cell structures, transportation and mitosis. This superfamily is composed of six distinct families. Alpha, beta, and gamma tubulin families are found in all eukaryotes. The alpha and beta tubulins represent the major components of microtubules, while gamma tubulin plays a critical role in the nucleation of microtubule assembly. There are multiple alpha and beta tubulin genes, which are highly conserved among species. The abundance of Gamma tubulin is less than 1% of the level of either alpha or beta tubulin. It shares approximately 28-32% identity with alpha tubulin from various organisms and 32-36% identity with beta tubulins. The detection, localization and characterization of proteins involved in microtubule function is fundamental to the understanding of mitosis, meiosis and the microtubule cytoskeleton.

### **PURIFICATION**

The mouse IgG is purified by Protein A-Affinity Chromatography according to Isotyping

### **FORMULATION**

This affinity purified antibody is supplied in sterile Phosphatebuffered saline (pH7.2) containing antibody stabilizer

### **SPECIFICITY**

This antibody recognizes ~55 kDa of human Tubulin protein. It is cross react to human, mouse and rat. The other species are not tested.

### **STORAGE**

The antibodies are stable for 24 months from date of receipt when stored at -20oC to -70oC. The antibodies can be stored at 2oC-8oC for three month without detectable loss of activity. Avoid repeated freezing-thawing cycles.

### **APPLICATIONS/SUGGESTED WORKING DILUTIONS\***

- Western Blot: 0.1-1 µg/ml
- ELISA: 0.01-0.1 µg/ml
- Immunoprecipitation: 2-5 µg/ml
- IHC: 2-10 µg/ml
- Flow cytometry: Not tested
- Molecular Weight: 55.0
- Positive Control: Kidney Tissue
- Cellular Location: Cell Membrane

\*Optimal dilutions should be determined by researchers for the specific applications.

### **FOR RESEARCH USE ONLY.**

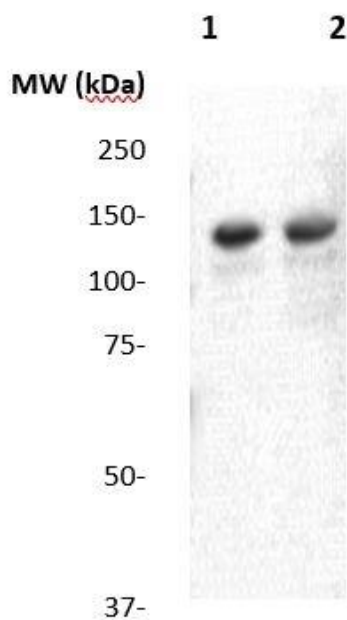
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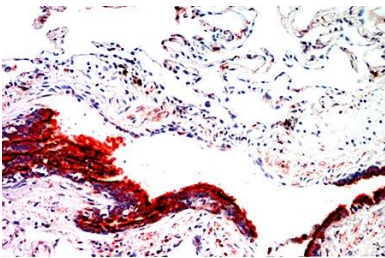
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## DATA ATTACHMENTS



Western Blot: Cell lysate from A431 (lane1) and Hela (Lane 2) was resolved onto 12% SDS-PAGE and transferred onto NC Membrane, then probed by Mouse anti-Tubulin beta antibody, (Cat# 500-6514) at 1:500. An immune-reactive band ~ 55 kDa is observed.



Immunohistochemistry: Human lung tissue (FFPE) stained with Mouse anti-Tubulin-beta antibody, (Cat# 500-6514) at 1:25 for 10 min @ RT. Staining of formalin-fixed tissue requires boiling tissue sections in 10 mM Citrate Buffer, pH 6.0 for 10 min followed by cooling at RT for 20 min.

## REFERENCES

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