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# Anti-β-Tubulin Mouse mAb [03F09]

**Catalog No.: A32083**

## Basic Information

| | |
|---|---|
| Catalog No. (Cat.No.) | A32083 |
| Host species | Mouse |
| Reactivity | Human,Mouse,Rat |
| Applications | WB,IF |
| Synonyms | β-Tubulin,TUBB3,TUBB4,Tubulin beta-3 chain,Tubulin beta-4 chain,Tubulin beta-III |

## Product Information

| | |
|---|---|
| Target | β-Tubulin |
| Molecular Weight(Calculated) | 50 kDa |
| Molecular Weight(Observed) | 55 kDa |
| Isotype | NA |
| Conjugation | NA |
| Concentration | 1 mg/ml |
| Clonality | Monoclonal |
| Clone No. | 03F09 |
| RRID | NA |
| Storage buffer | 50% Glycerol, 0.5% BSA and 0.02% preservative in PBS (pH 7.2-7.4) |
| Storage | Stored at -20°C for 1 year. Avoid repeated freeze / thaw cycles. |
| Shipped at conditions | Frozen |
| Form | Liquid |

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## Product Usage Information

| Application | Dilution |
|---|---|
| WB | 1:5000-1:10000 |
| IF | 1:100-1:200 |

## Target Information

| | |
|---|---|
| Protein Name | NA |
| Gene Name | *TUBB* |
| Domain | NA |
| Background | β-Tubulin belongs to tubulin family and controls microtubule dynamics, cell division and molecular motor anchoring. β□Tubulin forms heterodimers with α□Tubulin and constitutes microtubule plus end, governing dynamic instability for microtubule growth and shrinkage. Multiple tissue-specific β-tubulin isoforms exist, such as neuron-specific βIII-Tubulin (Tuj1) involved in neuronal differentiation. β-Tubulin is stably expressed across most cell types and used as loading control for WB and IF. Isoform switching or mutations may confer resistance to taxane-class microtubule-targeting drugs. It is widely applied in cytoskeleton, mitosis, neuronal differentiation and anti-tumour drug resistance researches. |