Ablumir
Built Around Immunology

# Anti-β-Tubulin Mouse mAb [88D53]

**Catalog No.: A32081**

## Basic Information

| | |
|---|---|
| Catalog No. (Cat.No.) | A32081 |
| Host species | Mouse |
| Reactivity | Human,Mouse,Rat,Pig |
| Applications | WB,IF,ELISA |
| Synonyms | β-Tubulin,Tubulin beta chain (Tubulin beta-5 chain) |

## Product Information

| | |
|---|---|
| Target | β-Tubulin |
| Molecular Weight(Calculated) | 50 kDa |
| Molecular Weight(Observed) | 50 kDa |
| Isotype | NA |
| Conjugation | NA |
| Concentration | Please check the information on the tube. |
| Clonality | Monoclonal |
| Clone No. | 88D53 |
| RRID | NA |
| Storage buffer | 50% Glycerol, 0.05% BSA and 0.05% 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 |

Ablumir
Built Around Immunology

## Product Usage Information

| Application | Dilution |
|---|---|
| WB | 1:500-1:2000 |
| IF | 1:100-1:500 |
| ELISA | 1:1000-1:5000 |

## Target Information

| | |
|---|---|
| Protein Name | Beta-tubulin |
| Gene Name | *TUBB* |
| Domain | human TUBA3C/E, aa 400-500 |
| 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. |