**beta Tubulin Monoclonal ANTIBODY**

**Catalog Number:** 66240-1-Ig  **19 Publications**

### Basic Information

- **Catalog Number:** 66240-1-Ig
- **Size:** 214 µg/150 µl
- **Source:** Mouse
- **Isotype:** IgG2a
- **Purification Method:** Protein A purification
- **Immunogen Catalog Number:** AG0117
- **GenBank Accession Number:** BC000748
- **Calculated MW:** 450aa, 50 kDa
- **Observed MW:** 50-55 kDa

### Applications

- **Tested Applications:** IF, IHC, IP, WB, ELISA
- **Cited Applications:** IF, WB
- **Species Specificity:** human, mouse, rat, nematode, pig, zebrafish
- **Cited Species:** human, mouse, rat

### Background Information

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 and beta tubulins have been widely used as loading controls. Tubulin expression may vary according to resistance to antimicrobial and antimitotic drugs.

### Notable Publications

<table>
<thead>
<tr>
<th>Author</th>
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<th>Journal</th>
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<tbody>
<tr>
<td>Lijuan Hu</td>
<td>29152137</td>
<td>Oncotarget</td>
<td>WB</td>
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<td>Hongjun Bian</td>
<td>28949380</td>
<td>Int J Mib Med</td>
<td>WB, IF</td>
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<td>Lin Huang</td>
<td>30221662</td>
<td>Int J Mib Med</td>
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### Storage

- **Storage:** Store at -20ºC. Stable for one year after shipment.
- **Storage Buffer:** PBS with 0.02% sodium azide and 50% glycerol pH 7.3
- **Aliquoting is unnecessary for -20°C storage**

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For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (toll free in USA), or 1(312) 455-8498 (outside USA)
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.
Selected Validation Data

Various lysates were subjected to SDS-PAGE followed by western blot with 66240-1-Ig (beta Tubulin antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.

RAW 264.7 cells were subjected to SDS-PAGE followed by western blot with 66240-1-Ig (beta Tubulin antibody) at different dilutions incubated at room temperature for 1.5 hours.

Immunofluorescent analysis of HepG2 cells using 66240-1-Ig (beta Tubulin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

Immunohistochemistry of paraffin-embedded human brain tissue slide using 66240-1-Ig (beta Tubulin antibody) at dilution of 1:400 (under 10x lens).

Immunohistochemistry of paraffin-embedded human brain tissue slide using 66240-1-Ig (beta Tubulin antibody) at dilution of 1:400 (under 40x lens).

IP Result of anti-beta Tubulin (IP:66240-1-Ig, 5ug; Detection:66240-1-Ig 1:1000) with HeLa cells lysate 880ug.