Beta Tubulin Monoclonal antibody

Catalog Number: 66240-1-Ig

Basic Information

Catalog Number: 66240-1-Ig

Size: 150μL, Concentration: 1427 μg/ml by Bradford method using BSA as the standard.

Source: Mouse

Isotype: IgG2a

Immunogen Catalog Number: AG0117

GenBank Accession Number: BC000748

GeneID (NCBI): 10381

Full Name: tubulin, beta 3

Calculated MW: 450 aa, 50 kDa

Observed MW: 50-55 kDa

Purification Method: Protein A purification

Clone No.: 1D4A4

Recommended Dilutions:
- WB: 1:20000-1:100000
- IP: 0.5-4.0 ug for IP and 1:500-1:2000 for WB
- IHC: 1:20-1:1000
- IF: 1:1200-1:800

Applications

Tested Applications:
- IF, IHC, IP, WB, ELISA

Cited Applications:
- IF, WB

Species Specificity:
- human, mouse, rat, nematode, pig, zebrafish

Cited Species:
- human, mouse, rabbit, rat

Note: IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

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>
<th>Pubmed ID</th>
<th>Journal</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yang Wu</td>
<td>31566024</td>
<td>Hum Gene Ther Methods</td>
<td>WB</td>
</tr>
<tr>
<td>Lijuan Hu</td>
<td>29152137</td>
<td>Oncotarget</td>
<td>WB</td>
</tr>
<tr>
<td>Hongjun Bian</td>
<td>28949380</td>
<td>Int J Mol Med</td>
<td>WB, IF</td>
</tr>
</tbody>
</table>

Storage

Store at -20°C. 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

For technical support and original validation data for this product please contact:
T: 1 (888) 4PTGLAB (1-888-478-4522) (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.
Various lysates were subjected to SDS PAGE followed by western blot with 66240-1-Ig (beta Tubulin antibody) at dilution of 1:200000 incubated at room temperature for 1.5 hours.

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.

Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 66240-1-Ig (beta Tubulin antibody), at dilution of 1:400 and CoraLite®488- Conjugated AffiniPure Goat Anti-Mouse IgG(H+L).

Red staining with CoraLite555-Phalloidin.

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

Immunohistochemical analysis 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.