

For Research Use Only

# Beta Tubulin Monoclonal antibody

Catalog Number: 66240-1-Ig 432 Publications



## Basic Information

<b>Catalog Number:</b> 66240-1-Ig	<b>GenBank Accession Number:</b> BC000748	<b>Purification Method:</b> Protein A purification
<b>Size:</b> 150ul , Concentration: 2000 ug/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10381	<b>CloneNo.:</b> 1D4A4
<b>Source:</b> Mouse	<b>UNIPROT ID:</b> Q13509	<b>Recommended Dilutions:</b> WB 1:20000-1:100000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
<b>Isotype:</b> IgG2a	<b>Full Name:</b> tubulin, beta 3	<b>IHC 1:20-1:1000</b>
<b>Immunogen Catalog Number:</b> AG0117	<b>Calculated MW:</b> 450 aa, 50 kDa	<b>IF-P 1:400-1:1600</b>
	<b>Observed MW:</b> 50-55 kDa	<b>IF/ICC 1:200-1:800</b>

## Applications

<b>Tested Applications:</b> WB, IHC, IF/ICC, IF-P, IP, ELISA	<b>Positive Controls:</b> <b>WB :</b> HeLa cells, HEK-293 cells, HepG2 cells, Jurkat cells, HSC-T6 cells, MCF-7 cells, NCCIT cells, HT-1080 cells, LNCaP cells, ROS1728 cells, NIH/3T3 cells
<b>Cited Applications:</b> WB, IHC, IF, IP	<b>IP :</b> HeLa cells,
<b>Species Specificity:</b> human, mouse, rat, pig, zebrafish, nematode	<b>IHC :</b> human brain tissue, human breast cancer tissue, rat brain tissue
<b>Cited Species:</b> human, mouse, rat, pig, rabbit, canine, monkey, chicken, zebrafish, sheep	<b>IF-P :</b> mouse eye tissue,
<b>Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0</b>	<b>IF/ICC :</b> HeLa cells, HepG2 cells

## 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

Author	Pubmed ID	Journal	Application
Yang Wu	31566024	Hum Gene Ther Methods	
Lijuan Hu	29152137	Oncotarget	WB
Zi-Chao Wang	36163178	Cell Death Dis	WB

## Storage

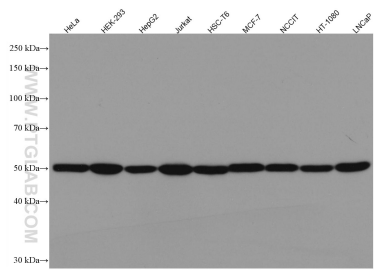
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol, pH7.3  
**Aliquoting is unnecessary for -20°C storage**

\*\*\* 20ul sizes contain 0.1% BSA

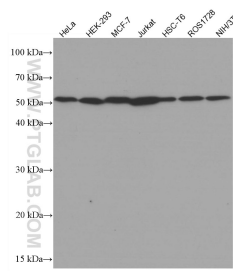
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
W: ptglab.com

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

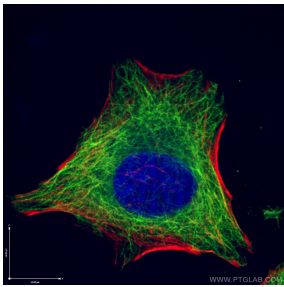
Selected Validation Data



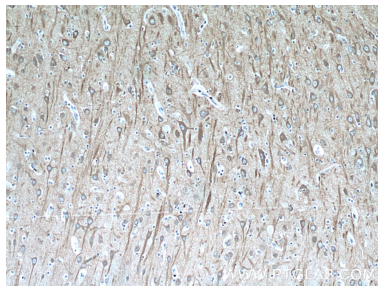
Various lysates were subjected to SDS PAGE followed by western blot with 66240-1-Ig (beta Tubulin antibody) at dilution of 1:200000 incubated at room temperature for 1.5 hours.



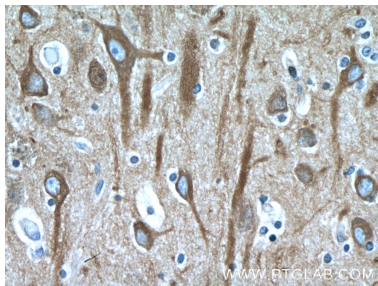
Various lysates were subjected to SDS PAGE followed by western blot with 66240-1-Ig (beta Tubulin antibody) at dilution of 1:100000 incubated at room temperature for 1.5 hours.



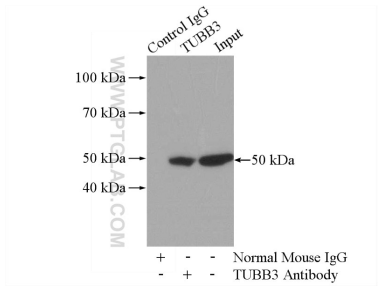
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using 66240-1-Ig (beta Tubulin antibody), at dilution of 1:400 and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L). Red: staining with Coralite555-Phalloidin.



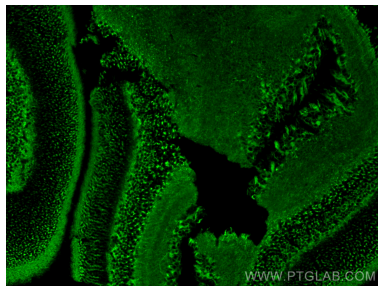
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66240-1-Ig (beta Tubulin antibody) at dilution of 1:400 (under 10x lens).



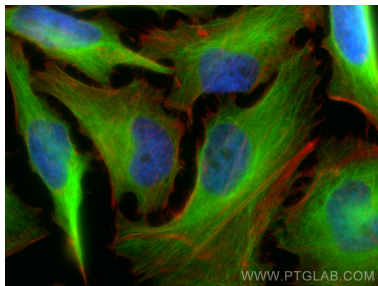
Immunohistochemical analysis of paraffin-embedded human brain tissue slide using 66240-1-Ig (beta Tubulin antibody) at dilution of 1:400 (under 40x lens).



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



Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse eye tissue using Beta Tubulin antibody (66240-1-Ig, Clone: 1D4A4) at dilution of 1:800 and Coralite® 488-Conjugated Goat Anti-Mouse IgG(H+L) (SA00013-1). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Beta Tubulin antibody (66240-1-Ig, Clone: 1D4A4) at dilution of 1:400 and Coralite® 488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-Phalloidin (red).