

For Research Use Only

# Beta Tubulin Polyclonal antibody

Catalog Number: 10094-1-AP

731 Publications



## Basic Information

<b>Catalog Number:</b> 10094-1-AP	<b>GenBank Accession Number:</b> BC000748	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 600 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 10381	<b>Recommended Dilutions:</b> WB 1:2000-1:12000 IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate IHC 1:20-1:200 IF 1:50-1:500
<b>Source:</b> Rabbit	<b>Full Name:</b> tubulin, beta 3	
<b>Isotype:</b> IgG	<b>Calculated MW:</b> 50 kDa	
<b>Immunogen Catalog Number:</b> AG0136	<b>Observed MW:</b> 55 kDa	

## Applications

<b>Tested Applications:</b> FC, IF, IHC, IP, WB, ELISA	<b>Positive Controls:</b> <b>WB :</b> U-251 cells, mouse kidney tissue, HEK-293 cells, rat kidney tissue, mouse brain tissue, rat brain tissue <b>IP :</b> mouse brain tissue, <b>IHC :</b> rat brain tissue, mouse brain tissue, human colon tissue, human cerebellum tissue, rat testis tissue <b>IF :</b> HepG2 cells,
<b>Cited Applications:</b> CoIP, IF, IHC, IP, WB	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, goat, chicken, rat, sheep, mouse, fish, zebrafish, hamster, pig	
<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>	

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

## Notable Publications

Author	Pubmed ID	Journal	Application
Shasha Nie	36231051	Cells	WB
Yu Wang	34658758	Front Neurosci	WB
Xudong Zhu	33162805	Int J Med Sci	WB

## Storage

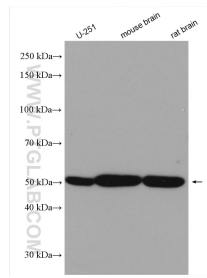
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

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

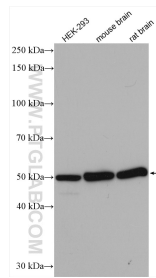
For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

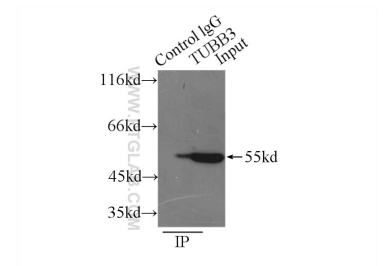
## Selected Validation Data



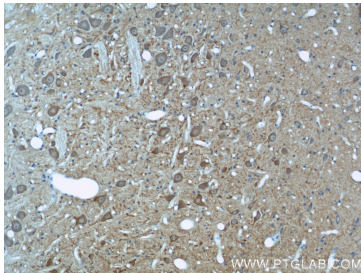
Various lysates were subjected to SDS PAGE followed by western blot with 10094-1-AP (Beta Tubulin antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.



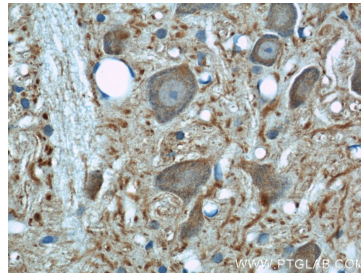
Various lysates were subjected to SDS PAGE followed by western blot with 10094-1-AP (beta Tubulin antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



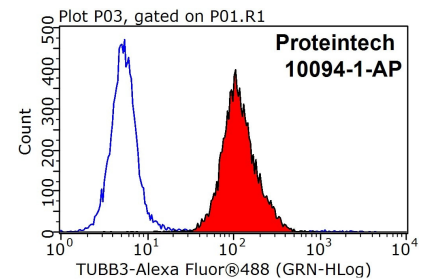
IP Result of anti-beta Tubulin (IP:10094-1-AP, 3ug; Detection:10094-1-AP 1:1000) with mouse brain tissue lysate 7500ug.



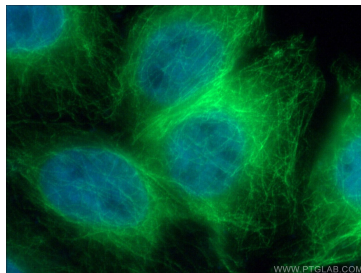
Immunohistochemical analysis of paraffin-embedded rat brain using 10094-1-AP (beta Tubulin antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded rat brain using 10094-1-AP (beta Tubulin antibody) at dilution of 1:50 (under 40x lens).



1X10<sup>6</sup> HepG2 cells were stained with 0.2ug beta Tubulin antibody (10094-1-AP, red) and control antibody (blue). Fixed with 90% MeOH blocked with 3% BSA (30 min). Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) with dilution 1:1000.



Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using 10094-1-AP (beta Tubulin antibody) at dilution of 1:50 and Alexa Fluor 488-conjugated AffiniPure Goat Anti-Rabbit IgG(H+L).