For Research Use Only

Beta Tubulin Polyclonal antibody

Catalog Number:10068-1-AP 458 Publications

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Basic Information

Catalog Number:
10068-1-AP

Size:
150ul , Concentration: 400 ug/ml by Nanodrop;

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG0117

GenBank Accession Number:
BC000748

GeneID (NCBI):
10381

UNIPROT ID:
Q13509

Full Name:
tubulin, beta 3

Calculated MW:
450 aa, 50 kDa

Observed MW:
50-55 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:2000
IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC 1:20-1:200
IF/ICC 1:200-1:800

Applications

Tested Applications:
WB, IHC, IF/ICC, FC (Intra), IP, ELISA

Cited Applications:
WB, IHC, IF, IP

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat, pig, canine, zebrafish, bovine, caenorhabditis elegans, silkworm

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

Positive Controls:

WB : mouse cerebellum tissue, HeLa cells, mouse brain tissue, rat brain tissue, HEK-293 cells, Jurkat cells, HepG2 cells, A431 cells, NIH/3T3 cells

IP : HEK-293 cells,

IHC : mouse brain tissue, human brain tissue, rat brain tissue

IF/ICC : C2C12 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, 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
Xiaodong Lan	26417862	Microsc Microanal	WB
Zhongming Li	36164968	Clin Exp Pharmacol Physiol	WB
YanHua Fan	36174847	Fitoterapia	WB

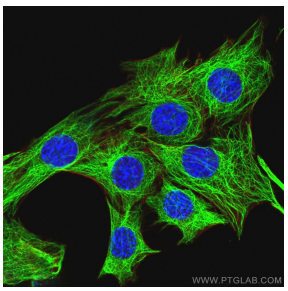
Storage

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

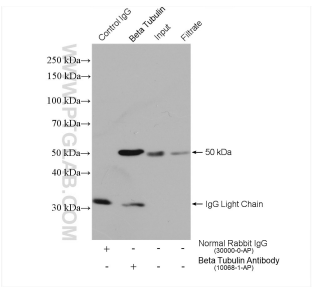
***** 20ul sizes contain 0.1% BSA**

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

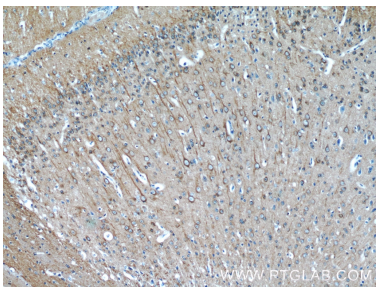
Selected Validation Data



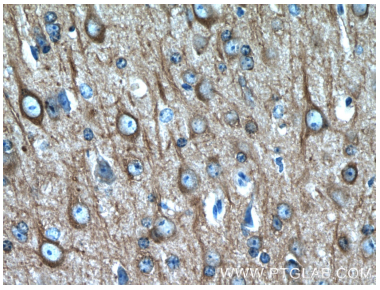
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using Beta Tubulin antibody (10068-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



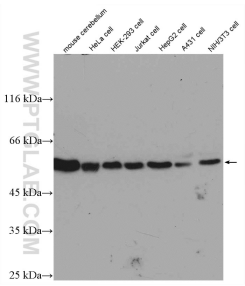
IP result of anti-Beta Tubulin (IP:10068-1-AP, 4ug; Detection:10068-1-AP 1:5000) with HEK-293 cells lysate 2320 ug.



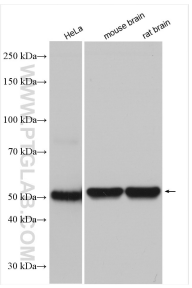
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10068-1-AP (beta Tubulin antibody at dilution of 1:50 (under 10x lens).



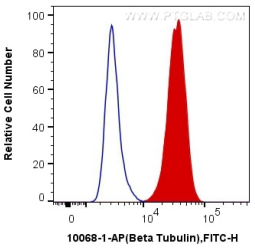
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10068-1-AP (beta Tubulin antibody at dilution of 1:50 (under 40x lens).



Various lysates were subjected to SDS PAGE followed by western blot with 10068-1-AP (beta Tubulin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Various lysates were subjected to SDS PAGE followed by western blot with 10068-1-AP (Beta Tubulin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human Beta Tubulin (10068-1-AP) and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) at dilution 1:1000 (red), or 0.4 ug Control Antibody. Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).