For Research Use Only

Beta Tubulin Polyclonal antibody

Catalog Number:10068-1-AP 638 Publications

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Basic Information

Catalog Number:
10068-1-AP

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: 1:5000-1:16000
IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate
IHC: 1:200-1:800
IF/ICC: 1:200-1:800
FC (Intra): 0.40 ug per 10^6 cells in a 100 ul suspension

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, c.elegans, silkworm, caenorhabditis elegans

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

IP : HEK-293 cells,

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

IF/ICC : C2C12 cells, HepG2 cells

FC (Intra) : HeLa 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, pH 7.3.
Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:
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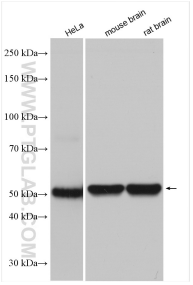
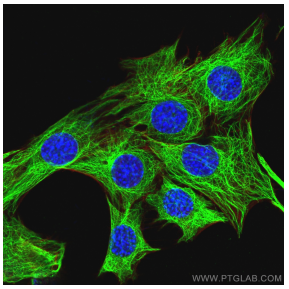
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

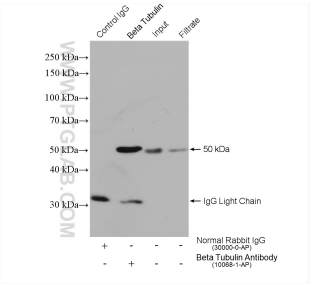
Selected Validation Data



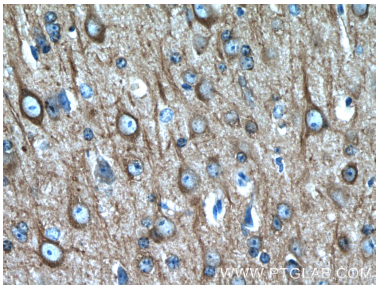
Various lysates were subjected to SDS PAGE followed by western blot with 10068-1-AP (Beta Tubulin antibody) at dilution of 1:8000 incubated at room temperature for 1.5 hours.



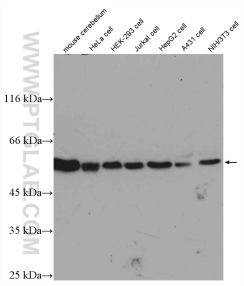
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using Beta Tubulin antibody (10068-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



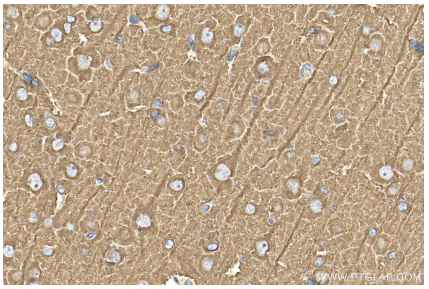
IP result of anti-Beta Tubulin (IP:10068-1-AP, 4ug; Detection:10068-1-AP 1:5000) with HEK-293 cells lysate 2320 ug.



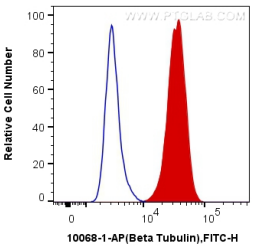
Immunohistochemical analysis of paraffin-embedded mouse brain tissue slide using 10068-1-AP (beta Tubulin antibody at dilution of 1:50 (under 40x lens).



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.



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 10068-1-AP (Beta Tubulin antibody) at dilution of 1:400 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1X10^6 HeLa cells were intracellularly stained with 0.4 ug Anti-Human Beta Tubulin (10068-1-AP) and CoraLite®488-Conjugated AffiniPure 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.