

For Research Use Only

Beta Tubulin Recombinant antibody

Catalog Number: 80713-1-RR

Featured Product

10 Publications



Basic Information

Catalog Number:

80713-1-RR

Concentration:

500 ug/ml

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:

Protein A purification

CloneNo.:

2013

Recommended Dilutions:

WB: 1:5000-1:50000

IP: 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC: 1:500-1:2000

IF-P: 1:50-1:500

IF/ICC: 1:250-1:1000

FC (Intra): 0.20 ug per 10⁶ cells in a 100 µl suspension

Applications

Tested Applications:

WB, IHC, IF/ICC, IF-P, FC (Intra), IP, ELISA

Cited Applications:

WB, IF

Species Specificity:

human, mouse, rat, zebrafish

Cited Species:

human, mouse

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, HEK-293 cells, zebrafish tissue, Jurkat cells, K-562 cells, Hsc-T6 cells, NIH/3T3 cells, mouse brain, rat brain

IP : HEK-293 cells,

IHC : human colon tissue, rat brain tissue

IF-P : mouse eye tissue,

IF/ICC : C2C12 cells, HeLa cells, HepG2 cells

FC (Intra) : HEK-293 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 antimetabolic drugs.

Notable Publications

Author	Pubmed ID	Journal	Application
Hidetaka Togo	36672213	Cells	IF
Tao Liu	40480228	Mol Cell	
Zhiyan Zhan	40021897	Cell Death Differ	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

For technical support and original validation data for this product please contact:

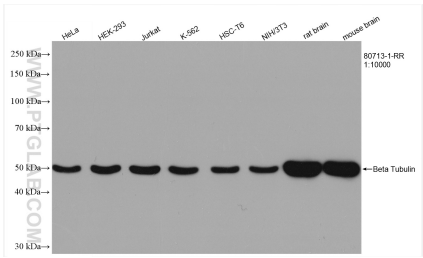
T: 4006900926

E: Proteintech-CN@ptglab.com

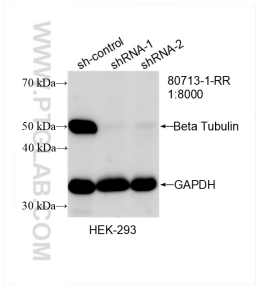
W: ptgcn.com

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

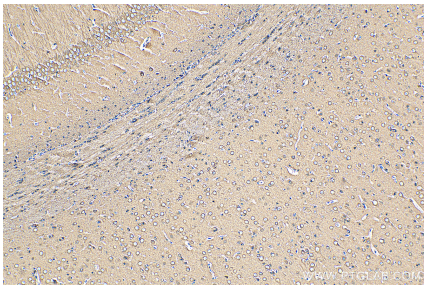
Selected Validation Data



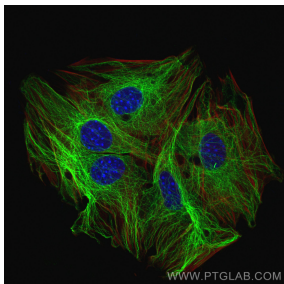
Various lysates were subjected to SDS PAGE followed by western blot with 80713-1-RR (Beta Tubulin antibody) at dilution of 1:10000 incubated at room temperature for 1.5 hours.



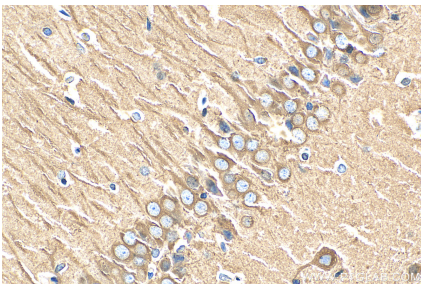
WB result of Beta Tubulin antibody (80713-1-RR; 1:8000; incubated at room temperature for 1.5 hours) with sh-Control and sh-Beta Tubulin transfected HEK-293 cells.



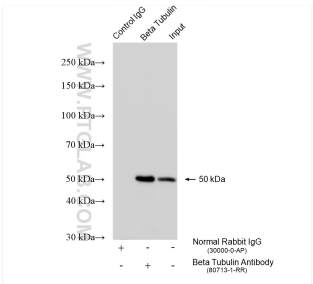
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 80713-1-RR (Beta Tubulin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



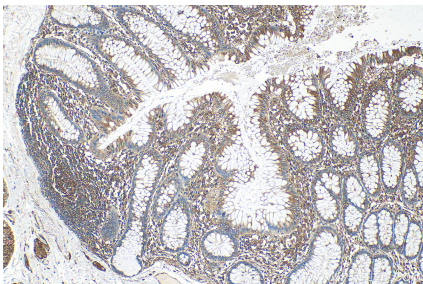
Immunofluorescent analysis of (4% PFA) fixed C2C12 cells using Beta Tubulin antibody (80713-1-RR, Clone: 2013) at dilution of 1:500 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L), CL594-Phalloidin (red).



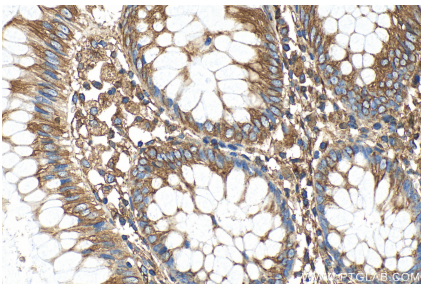
Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 80713-1-RR (Beta Tubulin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



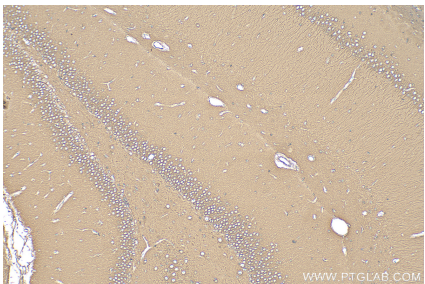
IP result of anti-Beta Tubulin (IP:80713-1-RR, 4ug; Detection:80713-1-RR 1:10000) with HEK-293 cells lysate 1610 ug.



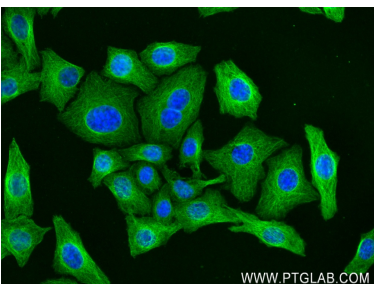
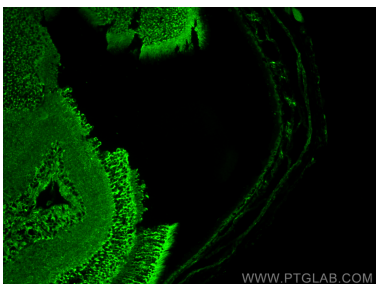
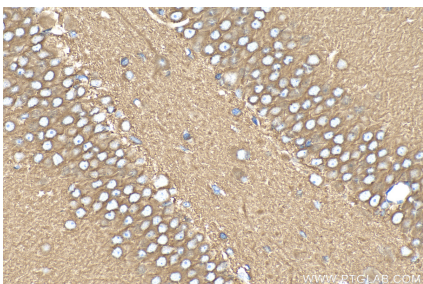
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80713-1-RR (Beta Tubulin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



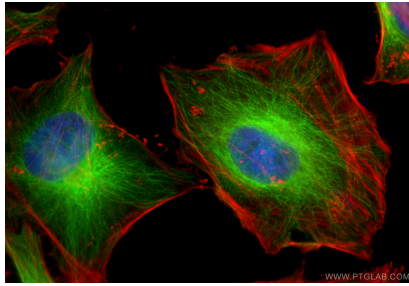
Immunohistochemical analysis of paraffin-embedded human colon tissue slide using 80713-1-RR (Beta Tubulin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 80713-1-RR (Beta Tubulin antibody) at dilution of 1:1000 (under 10x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).

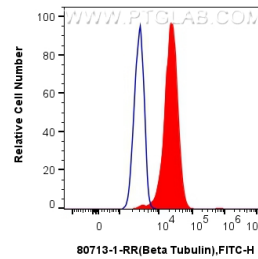


Immunohistochemical analysis of paraffin-embedded rat brain tissue slide using 80713-1-RR (Beta Tubulin antibody) at dilution of 1:1000 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



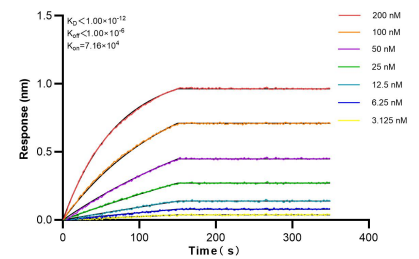
Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Beta Tubulin antibody (80713-1-RR, Clone: 2013) at dilution of 1:200 and Multi-rAb CoraLite® Plus 488-Goat Anti-Rabbit Recombinant Secondary Antibody (H+L) (RGAR002), CL594-phalloidin (red).

Immunofluorescent analysis of (4% PFA) fixed paraffin-embedded mouse eye tissue using Beta Tubulin antibody (80713-1-RR, Clone: 2013) at dilution of 1:200 and CoraLite®488-Conjugated Goat Anti-Rabbit IgG(H+L) (SA00013-2). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



1×10^6 HEK-293 cells were intracellularly stained with 0.2 μ g Beta Tubulin Recombinant antibody (80713-1-RR, Clone:2013) and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2)(red), or 0.2 μ g Isotype Control (blue). Cells were fixed with 4% PFA and permeabilized with Flow Cytometry Perm Buffer (PF00011-C).

Immunofluorescent analysis of (4% PFA) fixed HepG2 cells using Beta Tubulin antibody (80713-1-RR, Clone: 2013) at dilution of 1:250 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).



Biolayer interferometry (BLI) kinetic assays of 80713-1-RR against Human Beta Tubulin were performed. The affinity constant is below 1 pM.