

Product datasheet

Anti-beta II Tubulin antibody [7B9] ab28035

Recombinant

[4 References](#) [9 Images](#)

Overview

Product name	Anti-beta II Tubulin antibody [7B9]
Description	Mouse monoclonal [7B9] to beta II Tubulin
Host species	Mouse
Tested applications	Suitable for: WB, IP, ICC/IF
Species reactivity	Reacts with: Mouse, Rat, Human
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human, mouse and rat brain tissue lysate. U-87 MG, C6, PC-12, Y79 and MDA-MB-231 whole cell lysate. ICC/IF: U-87 MG, Neuro-2a and PC-12 cells. IP: Neuro-2a whole cell lysate.
General notes	<p>This antibody clone is manufactured by Abcam. If you require a custom buffer formulation or conjugation for your experiments, please contact orders@abcam.com.</p> <p>This product is a recombinant monoclonal antibody, which offers several advantages including:</p> <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production <p>For more information see here.</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
Purity	Protein A purified
Clonality	Monoclonal
Clone number	7B9
Isotype	IgG1

Applications

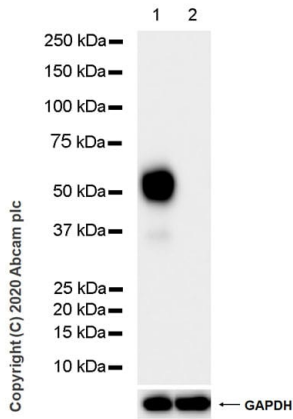
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab28035 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/1000. Predicted molecular weight: 50 kDa.
IP		1/30.
ICC/IF		1/50.

Target

Function	Tubulin is the major constituent of microtubules. It binds two moles of GTP, one at an exchangeable site on the beta chain and one at a non-exchangeable site on the alpha chain.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the tubulin family.
Domain	The highly acidic C-terminal region may bind cations such as calcium.
Post-translational modifications	Some glutamate residues at the C-terminus are polyglutamylated. This modification occurs exclusively on glutamate residues and results in polyglutamate chains on the gamma-carboxyl group. Also monoglycylated but not polyglycylated due to the absence of functional TTL10 in human. Monoglycylation is mainly limited to tubulin incorporated into axonemes (cilia and flagella) whereas glutamylation is prevalent in neuronal cells, centrioles, axonemes, and the mitotic spindle. Both modifications can coexist on the same protein on adjacent residues, and lowering glycylation levels increases polyglutamylated, and reciprocally. The precise function of such modifications is still unclear but they regulate the assembly and dynamics of axonemal microtubules.
Cellular localization	Cytoplasm > cytoskeleton.

Images



Western blot - Anti-beta II Tubulin antibody [7B9] (ab28035)

All lanes : Anti-beta II Tubulin antibody [7B9] (ab28035) at 1/1000 dilution

Lane 1 : Human brain tissue lysate

Lane 2 : Human heart tissue lysate

Lysates/proteins at 20 µg per lane.

Secondary

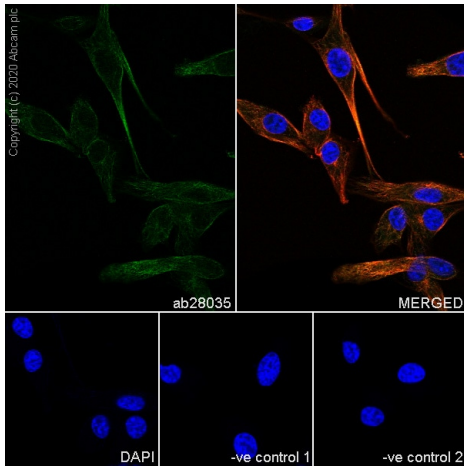
All lanes : VeriBlot for IP Detection Reagent (HRP) (**ab131366**) at 1/1000 dilution

Predicted band size: 50 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDM/TBST.

Negative control: Human heart (PMID:20191564).

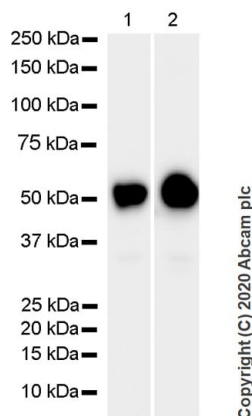


Immunocytochemistry/ Immunofluorescence - Anti-beta II Tubulin antibody [7B9] (ab28035)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized U-87 MG cells labelling beta II Tubulin with ab28035 at 1/50 dilution, followed by **ab150113** Goat Anti-mouse IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in U-87 MG cell line. **ab179513** anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/500 dilution, followed by **ab150080** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) (Red). The nuclear counterstain was DAPI (Blue).

Negative control 1: ab28035 at a 1/500 dilution followed by **ab150080** at a 1/500 dilution.

Negative control 2: **ab179513** at a 1/500 dilution followed by **ab150113** at a 1/1000 dilution.



Western blot - Anti-beta II Tubulin antibody [7B9]
(ab28035)

All lanes : Anti-beta II Tubulin antibody [7B9] (ab28035) at 1/1000 dilution

Lane 1 : Mouse brain tissue lysate

Lane 2 : Rat brain tissue lysate

Lysates/proteins at 20 µg per lane.

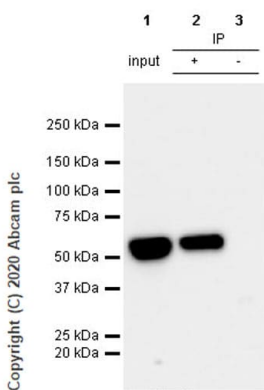
Secondary

All lanes : Anti-mouse IgG for IP (HRP) ([ab131368](#)) at 1/1000 dilution

Predicted band size: 50 kDa

Exposure time: 1 second

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunoprecipitation - Anti-beta II Tubulin antibody
[7B9] (ab28035)

beta II Tubulin was immunoprecipitated from 0.35 mg Neuro-2a (mouse neuroblastoma neuroblast) whole cell lysate with ab28035 at 1/30 dilution (2µg in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab28035 at 1/1000 dilution. mouse IgG for IP (HRP) ([ab131368](#)) was used at 1/1000 dilution.

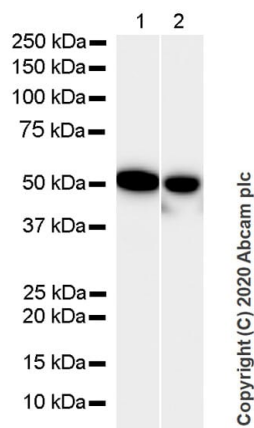
Lane 1: Neuro-2a whole cell lysate 10µg.

Lane 2: ab28035 IP in Neuro-2a whole cell lysate.

Lane 3: Mouse monoclonal IgG ([ab18443](#)) instead of ab28035 in Neuro-2a whole cell lysate.

Blocking/Dilution buffer: 5% NFDm/TBST.

Exposure time: 3 seconds.



Western blot - Anti-beta II Tubulin antibody [7B9] (ab28035)

All lanes : Anti-beta II Tubulin antibody [7B9] (ab28035) at 1/1000 dilution

Lane 1 : C6 (rat glial tumor glial cell), whole cell lysate

Lane 2 : PC-12 (rat adrenal gland pheochromocytoma), whole cell lysate

Lysates/proteins at 20 µg per lane.

Secondary

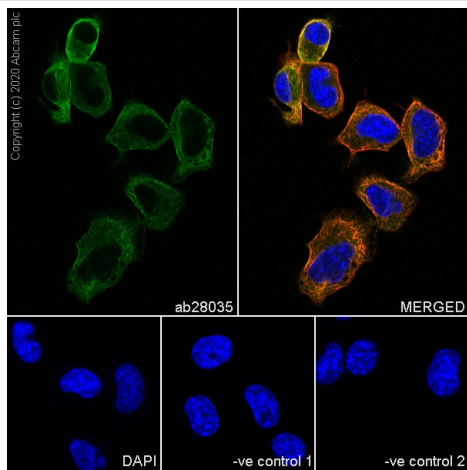
All lanes : Anti-mouse IgG for IP (HRP) ([ab131368](#)) at 1/1000 dilution

Predicted band size: 50 kDa

Blocking/Dilution buffer: 5% NFDM/TBST.

Exposure time: lane 1, 2: 1 second

lane 3: 3 seconds

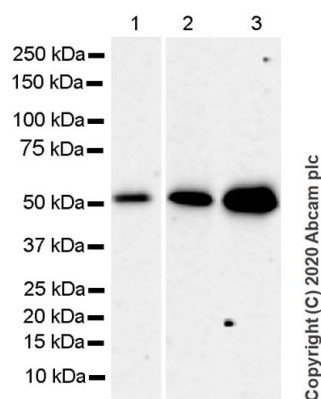


Immunocytochemistry/ Immunofluorescence - Anti-beta II Tubulin antibody [7B9] (ab28035)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized Neuro-2a cells labelling beta II Tubulin with ab28035 at 1/50 dilution, followed by [ab150113](#) Goat Anti-mouse IgG H&L (Alexa Fluor[®] 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in Neuro-2a cell line. [ab179513](#) anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/500 dilution, followed by [ab150080](#) Goat Anti-Rabbit IgG H&L (Alexa Fluor[®] 594) (Red). The nuclear counterstain was DAPI (Blue).

Negative control 1: ab28035 at a 1/500 dilution followed by [ab150080](#) at a 1/500 dilution.

Negative control 2: [ab179513](#) at a 1/500 dilution followed by [ab150113](#) at a 1/1000 dilution.



Western blot - Anti-beta II Tubulin antibody [7B9]
(ab28035)

All lanes : Anti-beta II Tubulin antibody [7B9] (ab28035) at 1/1000 dilution

Lane 1 : U-87 MG (human glioblastoma-astrocytoma epithelial cell), whole cell lysate

Lane 2 : Y79 (human retinoblastoma retinoblastoma), whole cell lysate

Lane 3 : MDA-MB-231 (human breast adenocarcinoma epithelial cell), whole cell lysate

Lysates/proteins at 20 µg per lane.

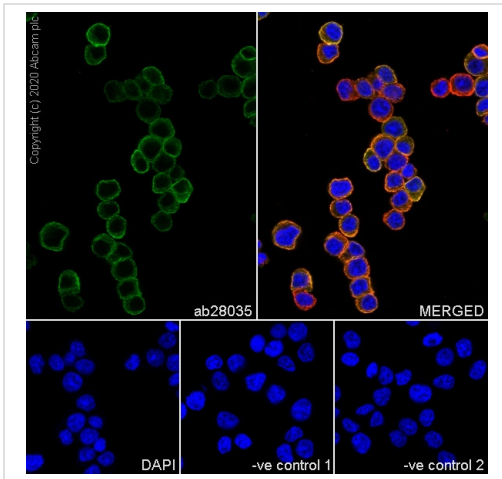
Secondary

All lanes : VeriBlot for IP Detection Reagent (HRP) ([ab131366](#)) at 1/1000 dilution

Predicted band size: 50 kDa

Exposure time: 180 seconds

Blocking/Dilution buffer: 5% NFDm/TBST.



Immunocytochemistry/ Immunofluorescence - Anti-beta II Tubulin antibody [7B9] (ab28035)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized PC-12 cells labelling beta II Tubulin with ab28035 at 1/50 dilution, followed by **ab150113** Goat Anti-mouse IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in PC-12 cell line. **ab179513** anti-beta Tubulin rabbit monoclonal antibody was used to counterstain tubulin at 1/500 dilution, followed by **ab150080** Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) (Red). The nuclear counterstain was DAPI (Blue).

Negative control 1: ab28035 at a 1/500 dilution followed by **ab150080** at a 1/500 dilution.

Negative control 2: **ab179513** at a 1/500 dilution followed by **ab150113** at a 1/1000 dilution.

Why choose a recombinant antibody?



Research with confidence
Consistent and reproducible results



Long-term and scalable supply
Recombinant technology



Success from the first experiment
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Ethical standards compliant
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Anti-beta II Tubulin antibody [7B9] (ab28035)

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