abcam

ab183830

Anti-MAP2 antibody [EPR19691] - Neuronal Marker

Anti-MAP2 antibody [EPR19691] (ab183830) is a rabbit monoclonal antibody detecting MAP2 in **Flow Cytometry (Intra), IHC-P, IHC-Fr, ICC/IF**. Suitable for **Human, Mouse, Rat**.

- Biophysical QC for unrivalled batch-batch consistency
- Over 50 publications

Chicken, goat and mouse version of this clone also available as ab318993, ab302487 and ab300645. Same clone, same staining pattern, different species antibody backbone.
Learn more about chimeric antibodies

Lab Essentials | Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: PBS, 40% Glycerol (glycerin, glycerine), 0.05% BSA
Form	Liquid
Clonality	Monoclonal
Immunogen	The exact immunogen used to generate this antibody is proprietary information.
Clone number	EPR19691
Purification technique	Affinity purification Protein A
Concentration	0.696 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

ICC/IF

Tested

Species	Mouse
Dilution info	1/500 - 1/1000
Notes	-

Species	Rat
Dilution info	1/500 - 1/1000
Notes	-

Species	Human
Dilution info	1/500 - 1/1000
Notes	-

IHC-Fr

Tested

Species	Mouse
Dilution info	1/100
Notes	Antigen retrieval: Heated citrate solution (10mM citrate PH 6.0 + 0.05% Tween-20)

Expected

Species	Rat, Human
Dilution info	Use at an assay dependent concentration.
Notes	-

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Expected

Species	Rat
Dilution info	Use at an assay dependent concentration.
Notes	-

Not recommended

Species	Human
Dilution info	-
Notes	-

IHC-P

Tested

Species	Mouse
Dilution info	1/8000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Rat
Dilution info	1/8000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/8000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target data

See full target information MAP2

Function	The exact function of MAP2 is unknown but MAPs may stabilize the microtubules against depolymerization. They also seem to have a stiffening effect on microtubules.

Storage

Shipped at conditions	Conditional Ambient
Appropriate short-term storage duration	1-2 weeks
Appropriate short-term storage conditions	+4°C
Appropriate long-term storage conditions	-20°C
Aliquoting information	Upon delivery aliquot
Storage information	Avoid freeze / thaw cycle

Notes

Find all reagents to label mature neurons in our "Mature neuron markers guide".

Product Specifications

Anti-MAP2 antibody [EPR19691] (ab183830) was developed by Abcam using patented rabbit monoclonal antibody technology and is validated for use in Flow Cyt (Intra), ICC/IF, IHC-Fr, IHC-P in human, mouse, rat samples.
Anti-MAP2 antibody [EPR19691] (ab183830) specifically detects MAP2 (UniProt ID: P20357; Molecular weight: 199kDa) and is sold in 100 µL and 1 mL selling sizes.

Quality and Validation

Abcam's high quality manufacturing and validation processes ensure Anti-MAP2 antibody [EPR19691] (ab183830) has high sensitivity and specificity alongside high lot-to-lot consistency and reproducibility.
Anti-MAP2 antibody [EPR19691] (ab183830) has been cited over 37 times in peer reviewed journals and is trusted by the scientific community.
Anti-MAP2 antibody [EPR19691] (ab183830) has 4 independent reviews from customers.

Related Products
Conjugation-ready, carrier free format available for antibody clone EPR19691 - ab236033.
Antibody clone EPR19691 is also available pre-conjugated to a variety of labels for your convenience - Alexa Fluor® 647, Alexa Fluor® 488, Alexa Fluor® 555, Alexa Fluor® 594, Alexa Fluor® 568 (ab225315, ab225316, ab302547, ab302832, ab303465).

Patented technology
Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents.

What are the advantages of a recombinant monoclonal antibody?
This product is a recombinant monoclonal antibody, which offers several advantages including:

- High batch-to-batch consistency and reproducibility
- Improved sensitivity and specificity

- Long-term security of supply
- Animal-free batch production

For more information, read more on recombinant antibodies.

Product promise

Tested

We have tested this species and application combination and it works. It is covered by our product promise.

Expected

We have not tested this specific species and application combination in-house, but expect it will work. It is covered by our product promise.

Predicted

This species and application combination has not been tested, but we predict it will work based on strong homology. However, this combination is not covered by our product promise.

Not recommended

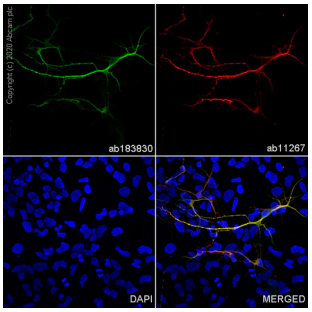
We do not recommend this combination. It is not covered by our product promise.

We are dedicated to supporting your work with high quality reagents and we are here for you every step of the way should you need us.

In the unlikely event of one of our products not working as expected, you are covered by our product promise.

Full details and terms and conditions can be found here:
Terms & Conditions.

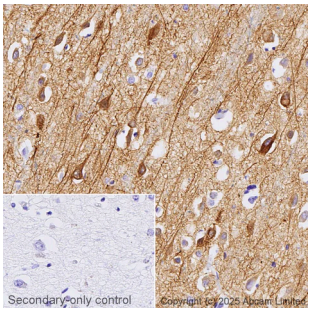
26 product images



Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MAP2 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized rat primary neural/glia cells labelling MAP2 with ab183830 at 1/1000 dilution, followed by ab150077 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (2 µg/mL) (Green). Confocal image showing positive staining in rat primary neuron cell. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. ab11267 Anti-MAP2 mouse monoclonal antibody was used to counterstain tubulin at 1/500 dilution (4 µg/mL) followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at 1/1000 dilution (2 µg/mL) (Red). The Nuclear counterstain was DAPI (Blue).



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of human Alzheimer's brain tissue using rabbit Anti-MAP2 antibody

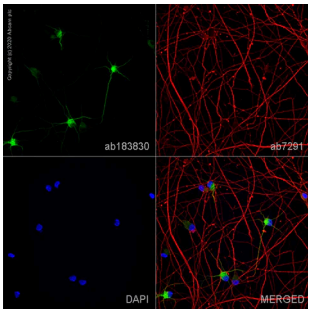
Immunohistochemical analysis of paraffin-embedded human Alzheimer's brain tissue* labelling MAP2 with ab183830 at 0.1ug/ml followed by a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).
Positive staining in human Alzheimer's brain.

The section was incubated with ab183830 for 30 mins at room temperature. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Counterstained with Hematoxylin.

Secondary antibody only control: Secondary antibody is a ready to use LeicaDS9800 (Bond™ Polymer Refine Detection).

Heat mediated antigen retrieval with sodium citrate buffer (pH 6.0 epitope retrieval solution1) for 20 mins.

*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.

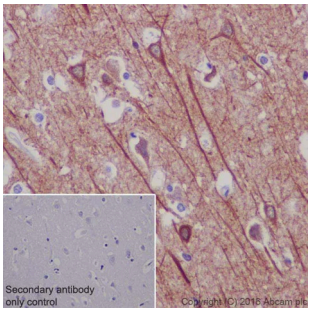


Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MAP2 antibody

Immunofluorescence staining of MAP2 using ab183830 in ioGlutamatergic Neurons (Human iPSC-Derived Glutamatergic Neurons, ab259259), which were differentiated for 11 days post induction. The cells were fixed with 4% formaldehyde (10 min), permeabilized with 0.1% PBS-Tween for 5 mins and then blocked with 1% BSA/10% normal goat serum/0.3M glycine in 0.1% PBS-Tween for 1h. The cells were then incubated overnight at +4°C with ab183830 at 1 µg/ml and ab7291, Mouse monoclonal [DM1A] to alpha Tubulin, at 1/1000 dilution. Cells were then incubated with ab150081, Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 dilution (shown in green) and ab150120, Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) preadsorbed at 1/1000 dilution (shown in red). Nuclear DNA was labelled with DAPI (shown in blue).

Images were acquired with the Perkin Elmer Operetta HCA and a maximum intensity projection of confocal sections is shown.

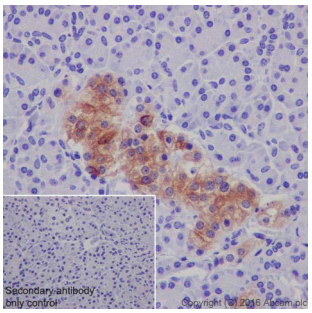


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MAP2 antibody

Immunohistochemical analysis of paraffin-embedded Human cerebral cortex tissue labeling MAP2 with ab183830 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on neurons of human cerebral cortex is observed [PMID 15233758, PMID 19136970]. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

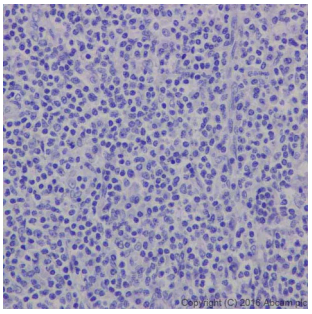


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MAP2 antibody

Immunohistochemical analysis of paraffin-embedded Human pancreas tissue labeling MAP2 with ab183830 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on human pancreas islet is observed [PMID: 9341200]. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

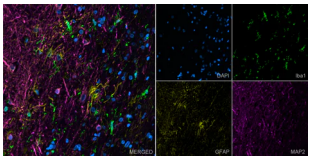
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MAP2 antibody

Immunohistochemical analysis of paraffin-embedded Human tonsil tissue labeling MAP2 with ab183830 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Negative staining on Human tonsil. Counter stained with Hematoxylin.
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining of Human cerebral cortex using rabbit Anti-MAP2 antibody

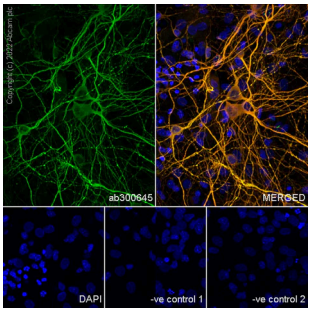
Composite multiplex immunofluorescence staining of Iba1, GFAP and MAP2 staining in a section of formalin-fixed paraffin-embedded human cerebral cortex*.

Performed on a Leica BOND. The section was pre-treated using heat mediated antigen retrieval with Sodium citrate (Ph6.0) using retrieval settings of 100°C for 20 minutes. The section was then incubated at room temperature for 1 hour with ab300156 at 1µg/ml dilution (shown in green), ab183830 at 1µg/ml (shown in magenta), and ab302644 at 1µg/ml (shown in yellow). Then incubated for 1 hour with ab150161 Goat F(ab')2 Anti-Rat IgG Fc (Alexa Fluor® 488) preadsorbed 1/1000, ab150083 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 647) preadsorbed 1/1000, and ab150134 Donkey Anti-Goat IgG H&L (Alexa Fluor® 555) preadsorbed 1/1000. Nuclear DNA was labelled with DAPI (shown in blue). The section was then mounted using Dako Fluorescence Mounting Medium ®.

Image was taken with the EVOS™ S1000 Spatial Imaging System (ThermoFisher Scientific) with spectral unmixing and minor subsequent contrast adjustment.

For other IHC staining systems (automated and non-automated), customers should optimize variable parameters such as antigen retrieval conditions, antibody concentrations and incubation times.

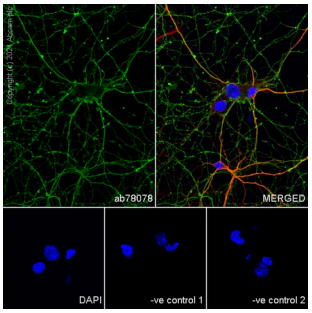
*Tissue obtained from the Human Research Tissue Bank, supported by the NIHR Cambridge Biomedical Research Centre.



Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining of Rat primary neuron using rabbit Anti-MAP2 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized rat primary neural/glia cells labeling MAP2 with ab300645 at 1/100 dilution followed by ab98736 Goat F(ab')2 Anti-Mouse IgG - Fc (DyLight® 488) pre-adsorbed at 1/1000 dilution (green). Counterstain was ab183830 Anti-MAP2 rabbit monoclonal antibody at 1/1000 dilution along with ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) as the counterstain secondary used at 1/1000 dilution. Confocal image showing cytoplasmic staining in rat primary neuron. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. The nuclear counter stain is DAPI (blue). Negative control 1: ab300645 at 1/100 dilution followed by ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at 1/1000 dilution. Negative control 2: ab183830 at 1/1000 dilution followed by ab98736 Goat F(ab')2 Anti-Mouse IgG - Fc (DyLight® 488) pre-adsorbed at 1/1000 dilution.



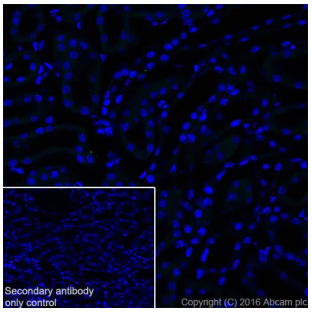
Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining of rat primary neural/glia cell using rabbit Anti-MAP2 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized rat primary neural/glia cells labelling beta III Tubulin with ab78078 at 1/200 dilution followed by a secondary antibody ab150113 Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green).

Confocal image showing positive staining in rat primary neuron. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The counterstain was observed in red. Nuclear DNA was labelled with DAPI (shown in blue).

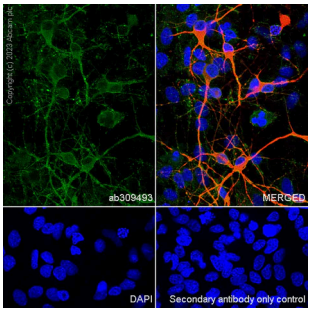
ab183830 Anti-MAP2 rabbit monoclonal antibody was used to counterstain MAP2 at 1/1000 dilution followed by a secondary antibody ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at 1/500 dilution (Red). The Nuclear counterstain was DAPI (Blue).



Immunohistochemistry (Frozen sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Frozen sections) staining using rabbit Anti-MAP2 antibody

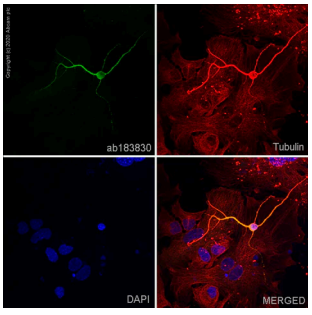
Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen Mouse kidney tissue labeling MAP2 with ab183830 at 1/100 dilution, followed by Goat anti-Rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Negative staining on mouse kidney. The nuclear counterstain is DAPI (blue).
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 secondary antibody at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining of Rat primary neurons using rabbit Anti-MAP2 antibody

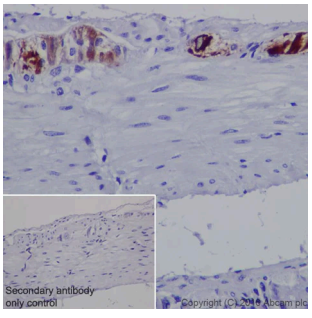
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized rat primary neurons labelling Synaptophysin with ab309493 at 1/100 dilution, followed by ab150113 Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) antibody at 1/1000 dilution (Green). Confocal image showing cytoplasmic staining in rat primary neuron cell line. Confocal scanning Z step was set as 0.3 µM followed by image processing with maximum Z projection. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). ab183830 Anti-MAP2 rabbit monoclonal antibody was used to counterstain tubulin at 1/1000 dilution, followed by ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at a 1/500 dilution (Red). The nuclear counterstain was DAPI (Blue). Secondary antibody only control: Secondary antibody is ab150113 Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MAP2 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse primary neural mix culture cells labelling Map2 with ab183830 at 1/500 dilution, followed by ab150077 AlexaFluor®488 Goat anti-Rabbit secondary antibody at 1/1000 dilution (Green). Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) was used to counterstain tubulin at 1/200 dilution (Red). The Nuclear counterstain was DAPI (Blue).



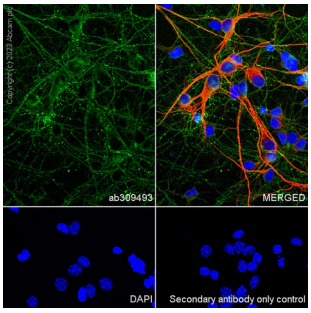
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MAP2 antibody

Immunohistochemical analysis of paraffin-embedded Mouse stomach tissue labeling MAP2 with ab183830 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on myenteric nerve plexus of mouse stomach is observed. Counter stained with Hematoxylin.

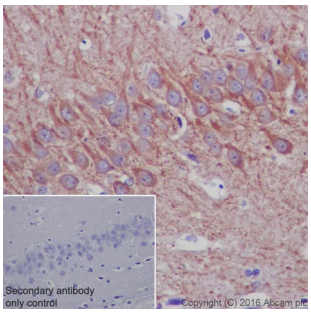
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining of Mouse primary neurons using rabbit Anti-MAP2 antibody

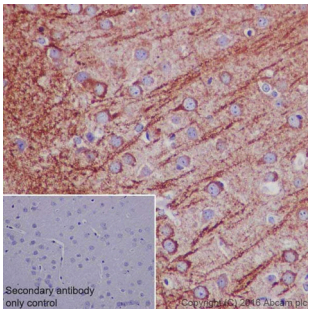


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MAP2 antibody

Immunohistochemical analysis of paraffin-embedded Rat hippocampus tissue labeling MAP2 with ab183830 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on neurons of rat hippocampus was observed [PMID 15233758, PMID 19136970]. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

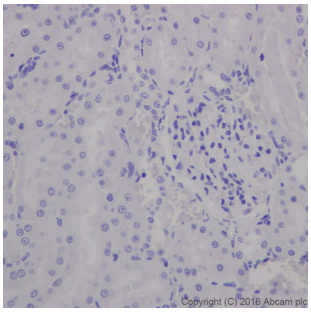


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MAP2 antibody

Immunohistochemical analysis of paraffin-embedded Mouse cerebral cortex tissue labeling MAP2 with ab183830 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasm staining on neurons of mouse cerebral cortex is observed [PMID 15233758, PMID 19136970]. Counter stained with Hematoxylin.
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab97051 at 1/500 dilution.

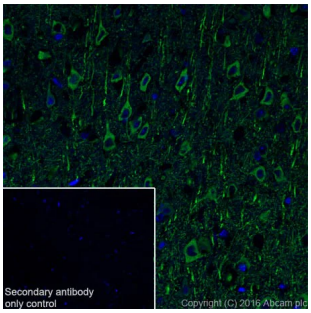
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MAP2 antibody

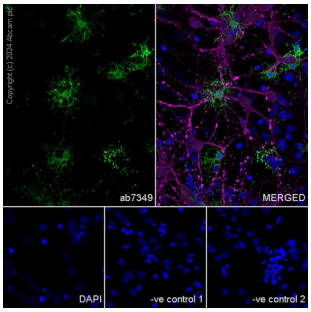
Immunohistochemical analysis of paraffin-embedded Rat kidney tissue labeling MAP2 with ab183830 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Negative staining on rat kidney is observed. Counter stained with Hematoxylin.
Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



Immunohistochemistry (Frozen sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Frozen sections) staining using rabbit Anti-MAP2 antibody

Immunohistochemical analysis of 4% paraformaldehyde-fixed, 0.2% Triton X-100 permeabilized frozen Mouse Cortex tissue labeling MAP2 with ab183830 at 1/100 dilution, followed by Goat anti-Rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Cytoplasmic staining on neurons of mouse Cortex is observed. The nuclear counterstain is DAPI (blue).
Secondary antibody only control: Used PBS instead of primary antibody, secondary antibody is ab150077 secondary antibody at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining of mouse primary oligodendroglia cells using rabbit Anti-MAP2 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized mouse primary neural/glia cells labelling Myelin Basic Protein with ab7349 at a 1/200 dilution, followed by Goat anti-Rat (Alexa Fluor® 488) (ab150157) secondary antibody at a 1/1000 dilution. Confocal image showing positive staining in mouse primary oligodendroglia cells (shown in green). Nuclear DNA was labeled with DAPI (shown in blue).

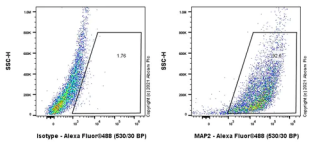
Counterstained with Anti-MAP2 antibody (ab183830) at a 1/1000 dilution, followed by Goat Anti-Rabbit secondary (Alexa Fluor® 594) (ab150080) at a 1/1000 dilution (shown in magenta).

Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8).

The negative controls are as follows:

-ve control 1: Myelin Basic Protein (ab7349) at a 1/200 dilution, followed by Goat anti-Rabbit (Alexa Fluor® 594) (ab150080) at a 1/1000 dilution.

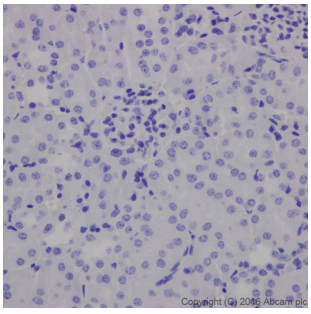
-ve control 2: Anti-MAP2 (ab183830) at a 1/1000 dilution, followed by Goat anti-Rat (Alexa Fluor® 488) (ab150157) at a 1/1000 dilution.



Flow Cytometry (Intracellular) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Flow Cytometry (Intracellular) staining using rabbit Anti-MAP2 antibody

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized Mouse brain cells cells labelling MAP2 with ab183830 at 1/500 dilution (0.1ug)/ Right compared with a Rabbit monoclonal IgG (ab172730) / Left isotype control. A Goat anti rabbit IgG (Alexa Fluor® 488, ab150077) at 1/2000 dilution was used as the secondary antibody.

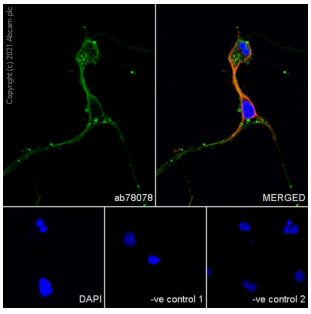


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) staining using rabbit Anti-MAP2 antibody

Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labeling MAP2 with ab183830 at 1/8000 dilution, followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Negative staining on mouse kidney. Counter stained with Hematoxylin.

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



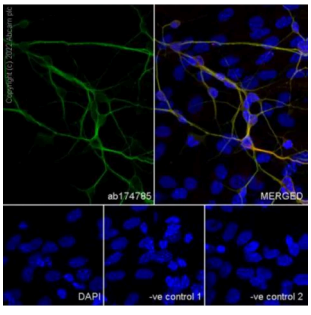
Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining of mouse primary neural/glia cell using rabbit Anti-MAP2 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse primary neural/glia cells labelling beta III Tubulin with ab78078 at 1/200 dilution followed by a secondary antibody ab150113 Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) at 1/1000 dilution (Green).

Confocal image showing positive staining in mouse primary neuron. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The counterstain was observed in red. Nuclear DNA was labelled with DAPI (shown in blue).

ab183830 Anti-MAP2 rabbit monoclonal antibody was used to counterstain MAP2 at 1/1000 dilution followed by a secondary antibody ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at 1/500 dilution (Red). The Nuclear counterstain was DAPI (Blue).

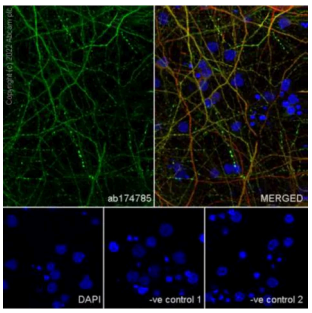


Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining of Mouse primary neuron cells using rabbit Anti-MAP2 antibody

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized mouse primary neuron cells labelling Glutamate Receptor 1 (AMPA subtype) with ab174785 at 1/200 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117) at

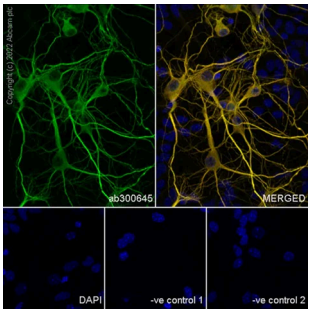
1/1000 dilution at RT for 45 min. Anti-MAP2 antibody [EPR19691] (ab183830) was used as a counterstain at 1/1000 dilution and was co-incubated with ab174785 overnight at 4° C, followed by Alexa Fluor® 594 Goat Anti-Rabbit secondary (ab150080) at 1/1000 dilution at RT for 45 min. Nucleus were visualized using DAPI.



Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining of Rat primary neuron cells using rabbit Anti-MAP2 antibody

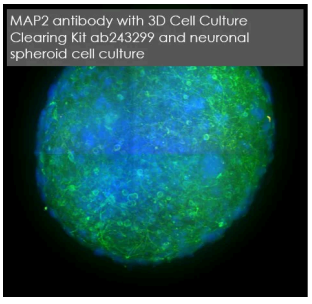
Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% TritonX-100 permeabilized Rat primary neuron cells labelling Glutamate Receptor 1 (AMPA subtype) with ab174785 at 1/200 dilution, followed by Goat Anti-Mouse IgG H&L (Alexa Fluor® 488) preadsorbed (ab150117) at 1/1000 dilution at RT for 45 min. Anti-MAP2 antibody [EPR19691] (ab183830) was used as a counterstain at 1/1000 dilution and was co-incubated with ab174785 overnight at 4° C, followed by Alexa Fluor® 594 Goat Anti-Rabbit secondary (ab150080) at 1/1000 dilution at RT for 45 min. Nucleus were visualized using DAPI.



Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining of Mouse primary neuron using rabbit Anti-MAP2 antibody

Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized mouse primary neural/glia cells labeling MAP2 with ab300645 at 1/100 dilution followed by ab98736 Goat F(ab')2 Anti-Mouse IgG - Fc (DyLight® 488) pre-adsorbed at 1/1000 dilution (green). Counterstain was ab183830 Anti-MAP2 rabbit monoclonal antibody at 1/1000 dilution along with ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) as the counterstain secondary used at 1/1000 dilution. Confocal image showing cytoplasmic staining in mouse primary neuron. Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection. The nuclear counter stain is DAPI (blue). Negative control 1: ab300645 at 1/100 dilution followed by ab150080 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 594) at 1/1000 dilution. Negative control 2: ab183830 at 1/1000 dilution followed by ab98736 Goat F(ab')2 Anti-Mouse IgG - Fc (DyLight® 488) pre-adsorbed at 1/1000 dilution.



Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [EPR19691] - Neuronal Marker (ab183830)

MAP2 Immunocytochemistry/ Immunofluorescence staining using rabbit Anti-MAP2 antibody

MAP2 antibody ab183830 was used with 3D Cell Culture Clearing Kit ab243299 to penetrate, stain and clear a 3D neuronal spheroid cell culture. Blue: DAPI, Green: MAP2. Learn more about 3D cell culture and tissue clearing kits, reagents, and protocols designed to make it easier to stain 3D cell cultures and thick tissue sections and get more data from each valuable tissue section. To use this antibody with clearing, use 3D Cell Culture Clearing Kit ab243299. We recommend a starting dilution of 1:150, and also using Goat Anti-Rabbit IgG H&L AlexaFluor488 (ab150077) at a dilution of 1:400.

Please note: All products are 'FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC OR THERAPEUTIC PROCEDURES'.