abcam

ab307286

Anti-MAP1B antibody [EPR27225-25]

Recombinant | RabMAb | 20ul selling size

Key facts

Isotype	IgG
Host species	Rabbit
Storage buffer	pH: 7.2 - 7.4 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	EPR27225-25
Purification technique	Affinity purification Protein A
Concentration	0.5 mg/mL The concentration of this product may be batch-dependent Batch concentration finder →

Reactivity data

IP

Tested

Species	Human
Dilution info	1/30
Notes	-

Species	Mouse

Dilution info	1/30
Notes	-

Expected

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

Flow Cyt (Intra)

Tested

Species	Mouse
Dilution info	1/500
Notes	-

Expected

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

ICC/IF

Tested

Species	Mouse
Dilution info	1/10 - 1/50
Notes	-

Expected

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

IHC-Fr

Tested

Species	Rat
Dilution info	1/100
Notes	-

Species	Mouse
Dilution info	1/100
Notes	-

Expected

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

IHC-P

Tested

Species	Rat
Dilution info	1/1000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Mouse
Dilution info	1/1000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Species	Human
Dilution info	1/1000
Notes	Perform heat-mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

WB

Tested

Species	Human
Dilution info	1/1000
Notes	-

Species	Rat
Dilution info	1/1000
Notes	-

Species	Mouse
Dilution info	1/1000
Notes	-

Target data

See full target information MAP1B

Function	Facilitates tyrosination of alpha-tubulin in neuronal microtubules (By similarity). Phosphorylated MAP1B is required for proper microtubule dynamics and plays a role in the cytoskeletal changes that accompany neuronal differentiation and neurite extension (PubMed:33268592). Possibly MAP1B binds to at least two tubulin subunits in the polymer, and this bridging of subunits might be involved in nucleating microtubule polymerization and in stabilizing microtubules. Acts as a positive cofactor in DAPK1-mediated autophagic vesicle formation and membrane blebbing.

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

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

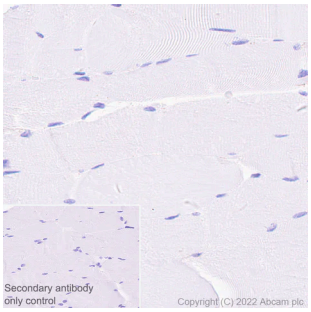
We do not recommend this combination. It is not covered by our product promise.

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.

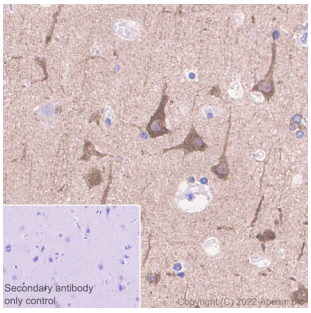
17 product images



Immunohistochemistry - Anti-MAP1B antibody [EPR27225-25] (ab307286)

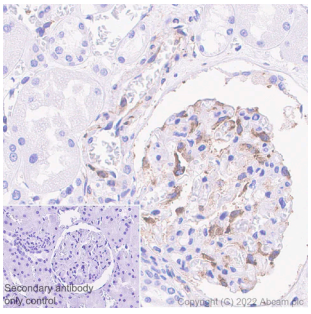
MAP1B Immunohistochemistry staining of Human skeletal muscle using rabbit Anti-MAP1B antibody

Immunohistochemical analysis of paraffin-embedded human skeletal muscle tissue labeling MAP1B with ab307286 at 1/1000 (0.496 ug/ml) followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Negative control: no staining on human skeletal muscle. The section was incubated with ab307286 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 ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



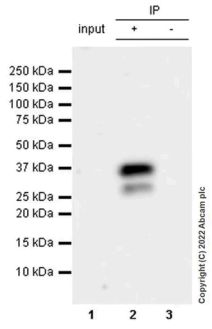
Immunohistochemistry - Anti-MAP1B antibody [EPR27225-25] (ab307286)

Immunohistochemical analysis of paraffin-embedded human cerebrum tissue labeling MAP1B with ab307286 at 1/1000 (0.496 ug/ml) followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on neuron of human cerebrum (PMID: 25429138; PMID: 24614691). The section was incubated with ab307286 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 ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry - Anti-MAP1B antibody [EPR27225-25] (ab307286)

Immunohistochemical analysis of paraffin-embedded human kidney tissue labeling MAP1B with ab307286 at 1/1000 (0.496 ug/ml) followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on human glomeruli (PMID: 26448484). The section was incubated with ab307286 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 ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunoprecipitation - Anti-MAP1B antibody [EPR27225-25] (ab307286)

MAP1B was immunoprecipitated from 0.35 mg human cerebellum tissue lysate 10 ug with ab307286 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab307286 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (ab131366) was used at 1/5000 dilution. Lane 1: Human cerebellum tissue lysate 10 ug Lane 2: ab307286 IP in human cerebellum tissue lysate Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab307286 in human cerebellum tissue lysate Blocking and dilution buffer and concentration: 5% NFDM/TBST. Exposure time: 10 seconds.
All lanes:
Immunoprecipitation - Anti-MAP1B antibody [EPR27225-25] (ab307286) at 1/1000 dilution

Lane 1:

Human cerebellum tissue lysate 10 µg

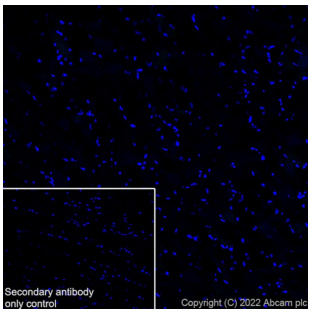
Lane 2:
Human cerebellum tissue lysate

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Observed band size: 26 kDa, 32 kDa

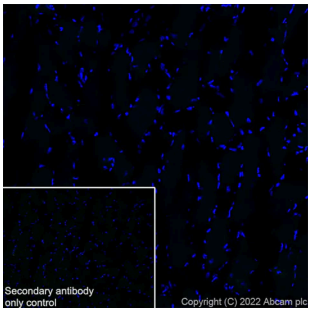
Exposure time: 10s



Immunohistochemistry (Frozen sections) - Anti-MAP1B antibody [EPR27225-25] (ab307286)

MAP1B Immunohistochemistry (Frozen sections) staining of Mouse skeletal muscle (fresh) using rabbit Anti-MAP1B antibody

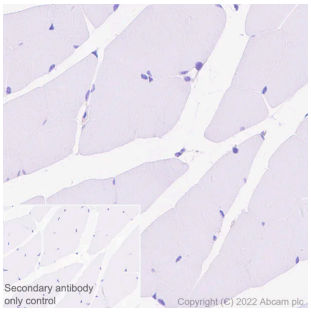
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse skeletal muscle (fresh) tissue labeling MAP1B with ab307286 at 1/100 (4.96 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution (Green). Negative control: confocal image showing no staining on mouse skeletal muscle. The section was incubated with ab307286 for 60 mins at room temperature. The section was then mounted using Fluoromount®. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution.



Immunohistochemistry (Frozen sections) - Anti-MAP1B antibody [EPR27225-25] (ab307286)

MAP1B Immunohistochemistry (Frozen sections) staining of Rat skeletal muscle (fresh) using rabbit Anti-MAP1B antibody

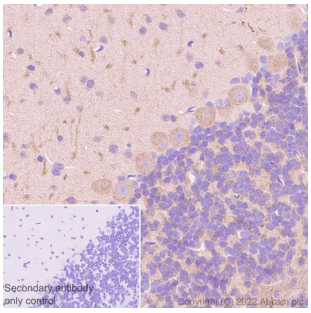
Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen rat skeletal muscle (fresh) tissue labeling MAP1B with ab307286 at 1/100 (4.96 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution (Green). Negative control: confocal image showing no staining on rat skeletal muscle. The section was incubated with ab307286 for 60 mins at room temperature. The section was then mounted using Fluoromount®. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution.



Immunohistochemistry - Anti-MAP1B antibody [EPR27225-25] (ab307286)

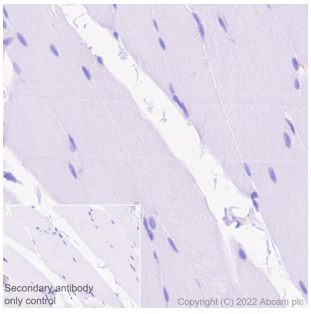
MAP1B Immunohistochemistry staining of Mouse skeletal muscle using rabbit Anti-MAP1B antibody

Immunohistochemical analysis of paraffin-embedded mouse skeletal muscle tissue labeling MAP1B with ab307286 at 1/1000 (0.496 ug/ml) followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Negative control: no staining on mouse skeletal muscle. The section was incubated with ab307286 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 ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry - Anti-MAP1B antibody [EPR27225-25] (ab307286)

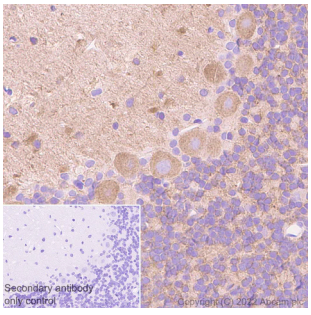
Immunohistochemical analysis of paraffin-embedded mouse cerebellum tissue labeling MAP1B with ab307286 at 1/1000 (0.496 ug/ml) followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on mouse cerebellum (PMID: 25788676). The section was incubated with ab307286 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 ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



Immunohistochemistry - Anti-MAP1B antibody [EPR27225-25] (ab307286)

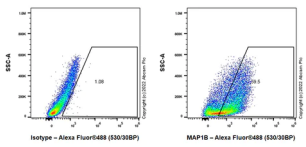
MAP1B Immunohistochemistry staining of Rat skeletal muscle using rabbit Anti-MAP1B antibody

Immunohistochemical analysis of paraffin-embedded rat skeletal muscle tissue labeling MAP1B with ab307286 at 1/1000 (0.496 ug/ml) followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Negative control: no staining on rat skeletal muscle. The section was incubated with ab307286 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 ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



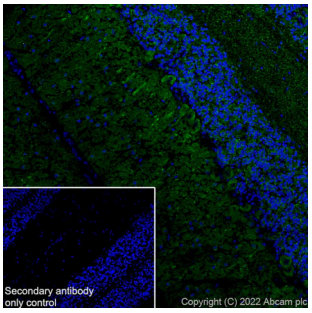
Immunohistochemistry - Anti-MAP1B antibody [EPR27225-25] (ab307286)

Immunohistochemical analysis of paraffin-embedded rat cerebellum tissue labeling MAP1B with ab307286 at 1/1000 (0.496 ug/ml) followed by ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Positive staining on rat cerebellum (PMID: 25788676). The section was incubated with ab307286 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 ready to use Rabbit specific IHC polymer detection kit HRP/DAB (ab209101). Heat mediated antigen retrieval was performed with Tris-EDTA buffer (pH 9.0, Epitope Retrieval Solution2) for 20 mins.



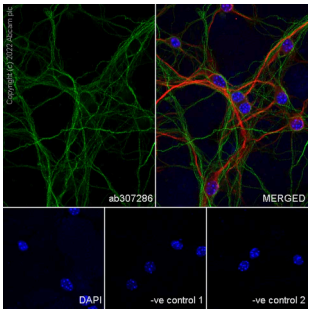
Flow Cytometry (Intracellular) - Anti-MAP1B antibody [EPR27225-25] (ab307286)

Flow cytometric analysis of 4% paraformaldehyde fixed 90% methanol permeabilized mouse primary neuron cells labeling MAP1B with ab307286 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, ab150081) at 1/2000 dilution was used as the secondary antibody.



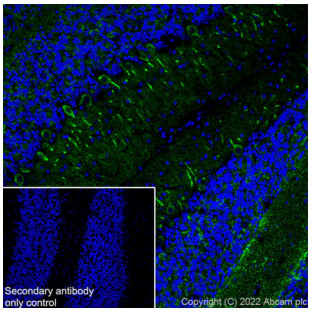
Immunohistochemistry (Frozen sections) - Anti-MAP1B antibody [EPR27225-25] (ab307286)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen rat cerebellum (fresh) tissue labeling MAP1B with ab307286 at 1/100 (4.96 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution (Green). Confocal image showing positive staining on rat cerebellum. The section was incubated with ab307286 for 60 mins at room temperature. The section was then mounted using Fluoromount®. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution.



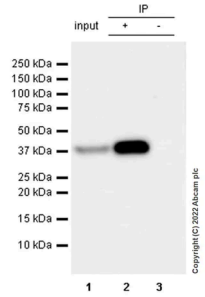
Immunocytochemistry/ Immunofluorescence - Anti-MAP1B antibody [EPR27225-25] (ab307286)

Immunofluorescent analysis of 4% Paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized mouse primary neuron cells labeling MAP1B with ab307286 at 1/100 (4.96 ug/ml) dilution, followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed antibody at 1/1000 (2 ug/ml) dilution (Green). Confocal image showing cytoplasmic staining in mouse primary neuron. Confocal scanning Z step was set as 0.3 um followed by image processing with maximum Z projection. Image was taken with a confocal microscope(Leica-Microsystems, TCS SP8). ab11267 Anti-MAP2 mouse monoclonal antibody was used to counterstain tubulin at 1/500 dilution (4ug/ml) dilution, followed by ab150120 Goat Anti-Mouse IgG H&L (Alexa Fluor® 594) at a 1/1000 dilution (2ug/ml) (Red). The nuclear counterstain was DAPI (Blue). -ve control 1: ab307286 at 1/100 dilution followed by ab150120 at a 1/1000 dilution. -ve control 2: ab11267 at 1/500 dilution followed by ab150081 at a 1/1000 dilution.



Immunohistochemistry (Frozen sections) - Anti-MAP1B antibody [EPR27225-25] (ab307286)

Immunohistochemical analysis of 4% PFA-fixed, 0.2% Triton X-100 permeabilized frozen mouse cerebellum (fresh) tissue labeling MAP1B with ab307286 at 1/100 (4.96 ug/ml) dilution followed by ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution (Green). Confocal image showing positive staining on mouse cerebellum. The section was incubated with ab307286 for 60 mins at room temperature. The section was then mounted using Fluoromount®. The immunostaining was performed on a Leica Biosystems BOND® RX instrument. Image was taken with a confocal microscope (Leica-Microsystems, TCS SP8). The nuclear counterstain was DAPI (Blue). Secondary antibody control: Secondary antibody is ab150081 Goat Anti-Rabbit IgG H&L (Alexa Fluor® 488) preadsorbed at 1/1000 (2 ug/mL) dilution.



Immunoprecipitation - Anti-MAP1B antibody [EPR27225-25] (ab307286)

MAP1B was immunoprecipitated from 0.35 mg mouse cerebellum tissue lysate 10 ug with ab307286 at 1/30 dilution (2ug in 0.35mg lysates). Western blot was performed on the immunoprecipitate using ab307286 at 1/1000 dilution. VeriBlot for IP secondary antibody(HRP) (ab131366) was used at 1/5000 dilution. Lane 1: Mouse cerebellum tissue lysate 10 ug Lane 2: ab307286 IP in mouse cerebellum tissue lysate Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab307286 in mouse cerebellum tissue lysate Blocking and dilution buffer and concentration: 5% NFDM/TBST. Exposure time: 10 seconds.
All lanes:
Immunoprecipitation - Anti-MAP1B antibody [EPR27225-25] (ab307286) at 1/1000 dilution

Lane 1:
Mouse cerebellum tissue lysate 10 µg

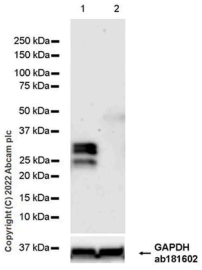
Lane 2:
Mouse cerebellum tissue lysate

Secondary

All lanes:
Immunoprecipitation - VeriBlot for IP Detection Reagent (HRP) (ab131366) at 1/5000 dilution

Observed band size: 26 kDa, 32 kDa

Exposure time: 10s



Western blot - Anti-MAP1B antibody [EPR27225-25] (ab307286)

Blocking/dilution buffer: 5% NFDM/TBST. The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 18656471; PMID: 16938900). Negative control: skeletal muscle tissue (PMID: 12684070). Exposure time: 180 seconds.
All lanes:
Western blot - Anti-MAP1B antibody [EPR27225-25] (ab307286) at 1/1000 dilution

Lane 1:
Human cerebellum tissue lysate 20 µg

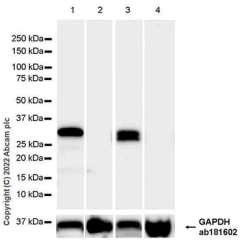
Lane 2:
Human skeletal muscle tissue lysate 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 26 kDa, 32 kDa

Exposure time: 180s



Western blot - Anti-MAP1B antibody [EPR27225-25] (ab307286)

MAP1B Western blot staining using rabbit Anti-MAP1B antibody

Blocking/dilution buffer: 5% NFDM/TBST.
The expression profile/ molecular weight observed is consistent with what has been described in the literature (PMID: 18656471; PMID: 16938900).

Negative control: skeletal muscle tissue (PMID:12684070).

All lanes:
Western blot - Anti-MAP1B antibody [EPR27225-25] (ab307286) at 1/1000 dilution

Lane 1:
Mouse cerebellum tissue lysate 20 µg

Lane 2:
Mouse skeletal muscle tissue lysate 20 µg

Lane 3:
Rat cerebellum tissue lysate 20 µg

Lane 4:
Rat skeletal muscle tissue lysate 20 µg

Secondary

All lanes:
Western blot - Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/20000 dilution

Observed band size: 26 kDa, 32 kDa

Exposure time: 15s

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