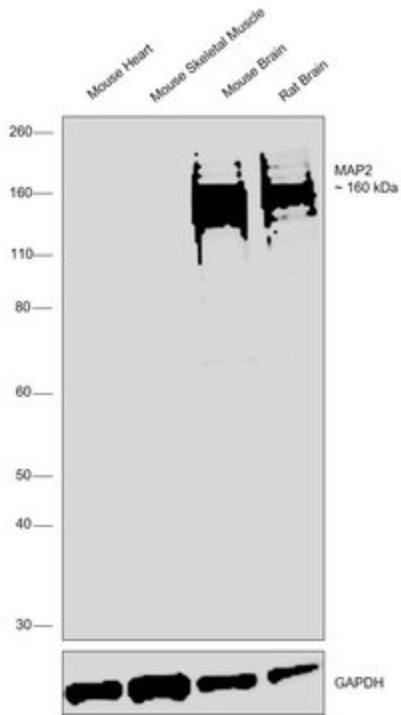


MAP2 Polyclonal Antibody

Product Details	
Size	50 µL
Species Reactivity	Human, Mouse, Rat
Published Species	Mouse, Human
Host/Isotope	Chicken / IgY
Class	Polyclonal
Type	Antibody
Conjugate	Unconjugated
Immunogen	Mix of recombinant human constructs of projection domain sequences, amino acids 235-1588.
Form	Liquid
Purification	PEG precipitation
Storage buffer	PBS
Contains	0.02% sodium azide
Storage Conditions	4° C
RRID	AB_1076848

Applications	Tested Dilution	Publications
Immunocytochemistry (ICC)	1:5,000-1:10,000	1 Publication
Immunofluorescence (IF)	1:5,000-1:10,000	1 Publication
Immunohistochemistry (IHC)	1:5,000-1:10,000	-
Western Blot (WB)	1:10,000-1:20,000	-
Miscellaneous PubMed (Misc)	-	1 Publication

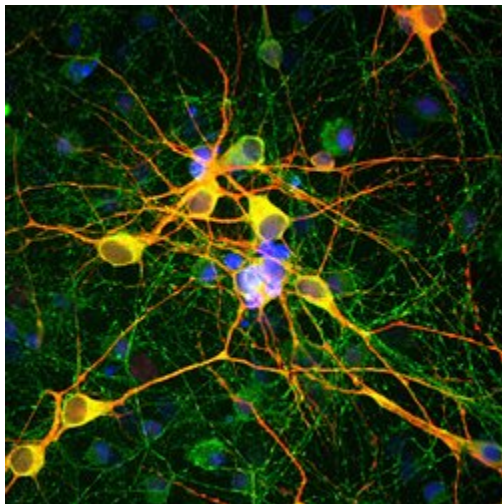
Advanced Verification Data



MAP2 Antibody (PA1-10005)

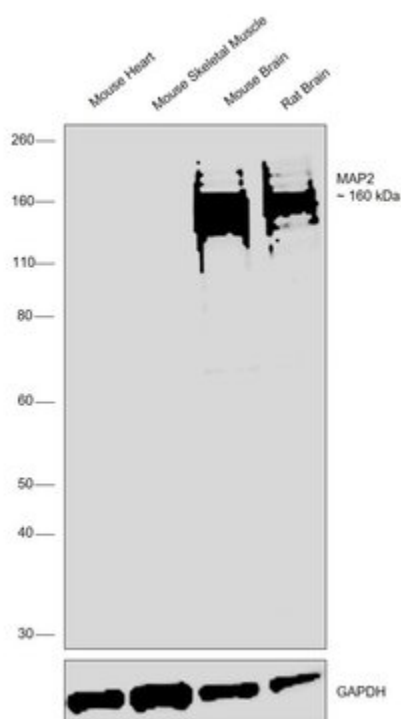
Antibody specificity was demonstrated by detection of differential basal expression of the target across tissues tested owing to their inherent genetic constitution. Relative expression of MAP2 was observed in Mouse Brain in comparison to Mouse Heart and Mouse Skeletal Muscle using Anti-MAP2 Polyclonal Antibody (Product # PA1-10005) in Western Blot. Relative expression validation info.

Product Images For MAP2 Polyclonal Antibody



MAP2 Antibody (PA1-10005) in IF

Immunofluorescent analysis of MAP2 in cortical neuron-glia cell culture. The culture was prepared from an E20 rat and stained using a MAP2 polyclonal antibody (Product # PA1-10005) at a dilution of 1:10,000 as seen in red, and a MAP-tau monoclonal antibody at a dilution of 1:2,000 as seen in green, and with DAPI staining the nuclear DNA in blue. The MAP2 antibody stains dendrites and perikarya of neurons, while the antibody to MAP-tau labels neuronal perikarya, dendrites and also axonal processes. As a result perikarya and dendrites appear orange-yellow, since they contain both MAP2 and tau, while axons are green.



MAP2 Antibody (PA1-10005) in WB

Western blot was performed using Anti-MAP2 Polyclonal Antibody (Product # PA1-10005) and a 160 kDa band corresponding to MAP2 was observed across Mouse Brain and Rat Brain and not in Mouse Heart and Mouse Skeletal Muscle. Tissue extracts (30 μ g lysate) of Mouse Heart (Lane 1), Mouse Skeletal Muscle (Lane 2), Mouse Brain (Lane 3) and Rat Brain (Lane 4) were electrophoresed using NuPAGE™ 4-12% Bis-Tris Protein Gel (Product # NP0322BOX). Resolved proteins were then transferred onto a Nitrocellulose membrane (Product # IB23001) by iBlot® 2 Dry Blotting System (Product # IB21001). The blot was probed with the primary antibody (1:10000 dilution) and detected by chemiluminescence with Goat anti-Chicken IgY H+L Secondary Antibody, HRP (Product # A16054, 1:4000 dilution) using the iBright FL 1000 (Product # A32752). Chemiluminescent detection was performed using SuperSignal™ West Dura Extended Duration Substrate (Product # 34076).

[View more figures on thermofisher.com](https://www.thermofisher.com)

3 References

Immunocytochemistry (1)

Scientific reports

Three-dimensional (3D) tetra-culture brain on chip platform for organophosphate toxicity screening.

"PA1-10005 was used in Immunocytochemistry-immunofluorescence to report on a microfluidic-based three-dimensional, four-cell tissue construct consisting of 1) a blood-brain barrier that has dynamic flow and membrane-free culture of the endothelial layer, and 2) an extracellular matrix (ECM)-embedded tissue construct with neuroblastoma, microglia, and astrocytes."

Authors: Koo Y, Hawkins BT, Yun Y

Species
Mouse

Dilution
1:100

Year
2018

Immunofluorescence (1)

Scientific reports

Zika Virus Infects Intermediate Progenitor Cells and Post-mitotic Committed Neurons in Human Fetal Brain Tissues.

"Published figure using MAP2 polyclonal antibody (Product # PA1-10005) in Immunofluorescence"

Authors: Lin MY, Wang YL, Wu WL, Wolseley V, Tsai MT, Radic V, Thornton ME, Grubbs BH, Chow RH, Huang IC

Species
Not Applicable

Dilution
Not Cited

Year
2017

Miscellaneous PubMed (1)

Molecular neuropsychiatry

Genetic and morphological features of human iPSC-derived neurons with chromosome 15q11.2 (BP1-BP2) deletions.

"PA1-10005 was used in immunocytochemistry to discuss the consequences of copy number variation on chromosome 15q11.2"

Authors: Das DK, Tapias V, D'Aiuto L, Chowdari KV, Francis L, Zhi Y, Ghosh BA, Surti U, Tischfield J, Sheldon M, Moore JC, Fish K, Nimgaonkar V

Species
Human

Dilution
1:5000

Year
2015

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