

Product datasheet

Anti-MAP2 antibody ab92434

★★★★★ [2 Abreviews](#) [45 References](#) [3 Images](#)

Overview

Product name	Anti-MAP2 antibody
Description	Chicken polyclonal to MAP2
Host species	Chicken
Tested applications	Suitable for: WB, ICC
Species reactivity	Reacts with: Rat, Human
Immunogen	Recombinant full length protein corresponding to Cow MAP2. Recombinant bovine MAP2 protein expressed in and purified from E. Coli Database link: F1MEW3

General notes

The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing.

If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C. Avoid repeated freeze / thaw cycles.
Storage buffer	Preservative: 0.065% Sodium azide
Purity	IgY fraction
Clonality	Polyclonal
Isotype	IgY

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab92434 in the following tested applications.

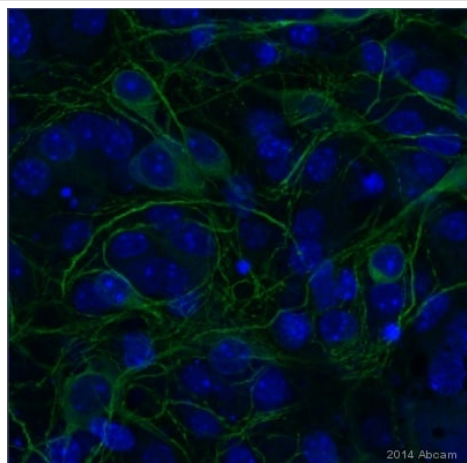
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/20000. Predicted molecular weight: 280 kDa.
ICC	★★★★★ (1)	Use at an assay dependent concentration.

Target

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.
Sequence similarities	Contains 3 Tau/MAP repeats.
Post-translational modifications	Phosphorylated at serine residues in K-X-G-S motifs by MAP/microtubule affinity-regulating kinase (MARK1 or MARK2), causing detachment from microtubules, and their disassembly (By similarity). Isoform 2 is probably phosphorylated by PKA at Ser-323, Ser-354 and Ser-386 and by FYN at Tyr-67.
Cellular localization	Cytoplasm, cytoskeleton.

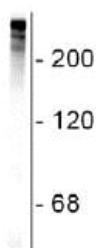
Images



Immunocytochemistry - Anti-MAP2 antibody (ab92434)

This image is courtesy of an Abreview submitted by Kirsty Ireland

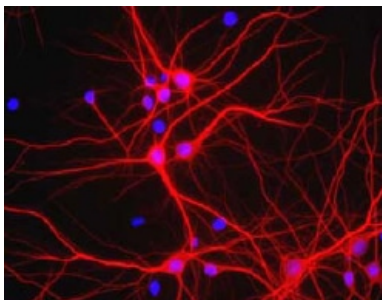
ab92434 staining MAP2 in mouse brain neurons by ICC/IF (Immunocytochemistry/immunofluorescence). Cells were fixed with paraformaldehyde and blocked with 5% serum for 1 hour at 20°C. Samples were incubated with primary antibody (1/2500 in PBS) for 24 hours at 4°C. **ab150169**, a goat **anti-chicken Alexa Fluor® 488** (1/500) was used as the secondary antibody.



Western blot - Anti-MAP2 antibody (ab92434)

Anti-MAP2 antibody (ab92434) at 1/20000 dilution + Rat cerebral cortex lysate

Predicted band size: 280 kDa



Immunocytochemistry - Anti-MAP2 antibody
(ab92434)

ab92434 at 1/2500 dilution staining MAP2 in mixed neuron/glia cultures by Immunofluorescence. The perikarya and dendrites of neurons are strongly and specifically stained with the MAP2 antibody (red). Cell nuclei are visualized with DAPI DNA stain.

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