

Product datasheet

Anti-MAP2 antibody [AP-20] ab11268

★★★★★ [6 Abreviews](#) [31 References](#) [2 Images](#)

Overview

Product name	Anti-MAP2 antibody [AP-20]
Description	Mouse monoclonal [AP-20] to MAP2
Host species	Mouse
Tested applications	Suitable for: ICC/IF, IHC-P
Species reactivity	Reacts with: Mouse
Immunogen	Full length native protein (purified) corresponding to Cow MAP2.
Positive control	ICC: Mouse Cell (Cortical neuron culture)
General notes	<p>This product was changed from ascites to tissue culture supernatant on 25th October 2016. The following lot(s) is/are from ascites and is still in stock as of 25th October 2016- GR143561. Lot numbers higher than GR143561 will be from tissue culture supernatant. Please note that the dilutions may need to be adjusted accordingly.</p> <p>Storage in frost-free freezers is not recommended. If slight turbidity occurs upon prolonged storage, clarify the solution by centrifugation before use.</p> <p>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.</p> <p>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</p>

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Storage buffer	pH: 7.40 Preservative: 0.097% Sodium azide Constituent: PBS
Purity	Proprietary Purification
Purification notes	Purified from Tissue culture supernatant.

Clonality	Monoclonal
Clone number	AP-20
Isotype	IgG1

Applications

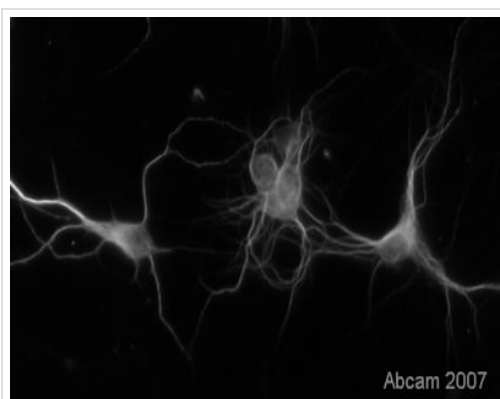
The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab11268 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
ICC/IF	★★★★★ (1)	Use at an assay dependent concentration.
IHC-P	★★★★★ (1)	1/5000. 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



Mouse monoclonal [AP-20] to MAP2 - Neuronal Marker (ab11268) used at a dilution of 1/500 in Immunocytochemistry/Immunofluorescence on Mouse Cell (Cortical neuron culture). Fixative: Paraformaldehyde. Blocking step: 2% Serum incubated for 1 hour at RT. Secondary Antibody: Goat anti-mouse AlexaFluor 594 Conjugation: Alexa Fluor® 594; 1/1000

Immunocytochemistry/ Immunofluorescence - Anti-MAP2 antibody [AP-20] (ab11268)

This image is courtesy of Randal Moldrich, Queensland Brain Institute, Australia



ab11268 staining MAP2 in E16 mouse brain neocortex (bottom is dorsal) by immunohistochemistry. Free-floating sections were incubated with ab11268 (1/5000) for 2 hours at 21°C. Bound antibody was detected using a biotinylated donkey anti-mouse IgG antibody. This image is courtesy of an Abreview submitted by Randal Moldrich, 6 March 2008.

Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 antibody [AP-20] (ab11268)

This image is courtesy of Randal Moldrich, Queensland Brain Institute, Australia

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