abcam

Product datasheet

Anti-MAP2 (phospho S136) antibody [EPR2361] ab96378

Recombinant RabMAb

★★★★★ 2 Abreviews 3 References 4 Images

Overview

Product name	Anti-MAP2 (phospho S136) antibody [EPR2361]
Description	Rabbit monoclonal [EPR2361] to MAP2 (phospho S136)
Host species	Rabbit
Tested applications	**Suitable for:** WB, IHC-P, ICC/IF **Unsuitable for:** Flow Cyt
Species reactivity	**Reacts with:** Mouse, Human **Predicted to work with:** Rat
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	WB: Human fetal brain and mouse brain tissue lysates IHC-P: Human brain tissue ICC/IF: Mouse primary neuron + Alkaline Phosphatase cells
General notes	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 production For more information **see here**. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to **RabMAb® patents**.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.20 Preservative: 0.05% Sodium azide Constituents: 0.1% BSA, 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number	EPR2361
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab96378 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		1/1000 - 1/10000. Predicted molecular weight: 200 kDa.
IHC-P		1/100 - 1/250. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.
ICC/IF	★★★★☆ (1)	1/500.

Application notes Is unsuitable for Flow Cyt.

Target

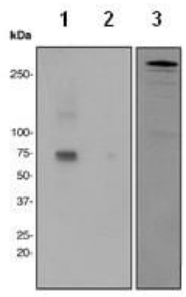
Function The exact function of MAP2 is unknown but MAPs may stabilize the microtubules against depolymerization. They also seem to have a stiffening effect on microtubules.

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



Western blot - Anti-MAP2 (phospho S136) antibody [EPR2361] (ab96378)

All lanes : Anti-MAP2 (phospho S136) antibody [EPR2361] (ab96378) at 1/1000 dilution

Lane 1 : Untreated fetal brain lysates

Lane 2 : Fetal brain lysates treated with Alkaline Phosphatase

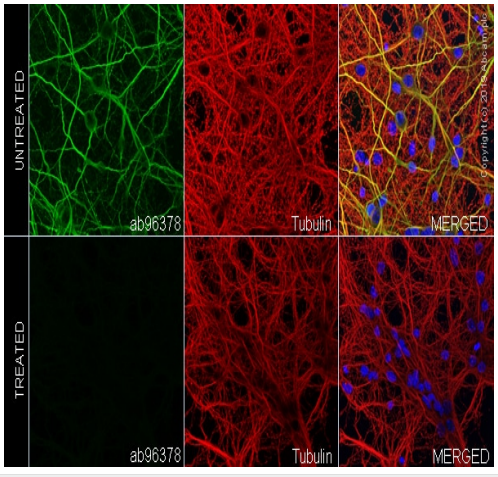
Lane 3 : Mouse brain lysates

Lysates/proteins at 10 µg per lane.

Secondary

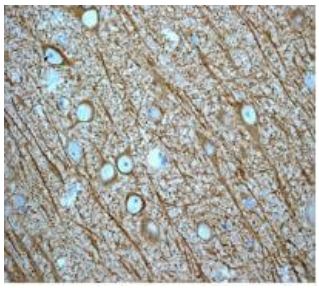
All lanes : HRP/AP polymerized antibody

Predicted band size: 200 kDa



Immunocytochemistry/ Immunofluorescence - Anti-MAP2 (phospho S136) antibody [EPR2361] (ab96378)

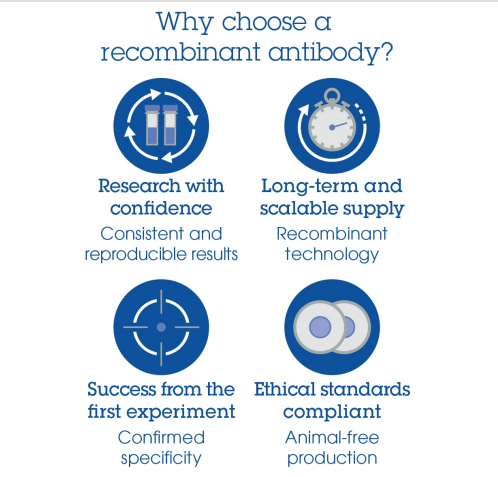
Immunocytochemistry/ Immunofluorescence analysis of mouse primary neuron + Alkaline Phosphatase cells labeling MAP2 with purified ab96378 at 1/500 (3 µg/mL). Cells were fixed in 4% paraformaldehyde and permeabilized with 0.1% Triton X-100. Cells were counterstained with Ab195889 Anti-alpha Tubulin antibody [DM1A] - Microtubule Marker (Alexa Fluor® 594) 1/200 (2.5 µg/mL). Goat anti rabbit IgG (Alexa Fluor® 488, **ab150077**) was used as the secondary antibody at 1/1000 (2 µg/mL) dilution. DAPI (blue) was used as nuclear counterstain. PBS instead of the primary antibody was used as the secondary antibody only control.
Confocal scanning Z step was set as 0.3 µm followed by image processing with maximum Z projection.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-MAP2 (phospho S136) antibody [EPR2361] (ab96378)

ab96378, at a 1/100 dilution, staining MAP2 in paraffin embedded Human brain tissue by Immunohistochemical analysis.

Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.



Anti-MAP2 (phospho S136) antibody [EPR2361] (ab96378)

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