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Phospho-MAP2(Y592) Antibody Blocking peptide

Synthetic peptide

Catalog # BP3591a

Specification

Phospho-MAP2(Y592) Antibody Blocking peptide - Product Information

Primary Accession	P11137
Other Accession	NP_002365

Phospho-MAP2(Y592) Antibody Blocking peptide - Additional Information

Gene ID 4133

Other Names
Microtubule-associated protein 2, MAP-2, MAP2

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP3591a was selected from the region of human Phospho-MAP2-pY592. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

Phospho-MAP2(Y592) Antibody Blocking peptide - Protein Information

Name MAP2

Phospho-MAP2(Y592) Antibody Blocking peptide - Background

MAP2 is a protein that belongs to the microtubule-associated protein family. The proteins of this family are thought to be involved in microtubule assembly, which is an essential step in neurogenesis. The exact function of this protein is still unknown. The products of similar genes in rat and mouse are neuron-specific cytoskeletal proteins that are enriched in dentrites, implicating a role in determining and stabilizing dentritic shape during neuron development.

Phospho-MAP2(Y592) Antibody Blocking peptide - References

Lauckner, J., et al., Neurobiol. Aging 24(6):767-776 (2003).Laurine, E., et al., J. Biol. Chem. 278(32):29979-29986 (2003).Liu, Y., et al., Adv Anat Pathol 10(2):101-106 (2003).DeTure, M.A., et al., J. Biol. Chem. 277(38):34755-34759 (2002).Al-Bassam, J., et al., J. Cell Biol. 157(7):1187-1196 (2002).

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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.

Cellular Location
Cytoplasm, cytoskeleton. Cell projection, dendrite {ECO:0000250|UniProtKB:P20357}

Phospho-MAP2(Y592) Antibody Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides