

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](/products/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

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](#)

Phospho-MAP2(Y592) Antibody Blocking peptide - Images

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 dendrites, implicating a role in determining and stabilizing dendritic 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).