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MAP2 Blocking Peptide (S1539)

Synthetic peptide
Catalog # BP2018d

Specification

MAP2 Blocking Peptide (S1539) - Product Information

Primary Accession	P11137
Other Accession	P15146, P20357

MAP2 Blocking Peptide (S1539) - Additional Information

Gene ID 4133

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

Target/Specificity
The synthetic peptide sequence is selected from aa 1533-1544 of HUMAN MAP2

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.

MAP2 Blocking Peptide (S1539) - 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.

MAP2 Blocking Peptide (S1539) - Background

MAP2 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. Similar proteins 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.

MAP2 Blocking Peptide (S1539) - 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).

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

MAP2 Blocking Peptide (S1539) - Protocols

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

- Blocking Peptides