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Msx2 Blocking Peptide (C-term)

Synthetic peptide
Catalog # BP2709B

Specification

Msx2 Blocking Peptide (C-term) - Product Information

Primary Accession P35548

Msx2 Blocking Peptide (C-term) - Additional Information

Gene ID 4488

Other Names
Homeobox protein MSX-2, Homeobox protein Hox-8, MSX2, HOX8

Target/Specificity
The synthetic peptide sequence is selected from aa 206-222 of HUMAN MSX2

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.

Msx2 Blocking Peptide (C-term) - Protein Information

Name MSX2

Synonyms HOX8

Function
Acts as a transcriptional regulator in bone development. Represses the ALPL promoter activity and antagonizes the stimulatory effect of DLX5 on ALPL expression during

Msx2 Blocking Peptide (C-term) - Background

This gene encodes a member of the muscle segment homeobox gene family. The encoded protein is a transcriptional repressor whose normal activity may establish a balance between survival and apoptosis of neural crest-derived cells required for proper craniofacial morphogenesis. The encoded protein may also have a role in promoting cell growth under certain conditions and may be an important target for the RAS signaling pathways. Mutations in this gene are associated with parietal foramina 1 and craniosynostosis type 2.

Msx2 Blocking Peptide (C-term) - References

Shao,J.S., Ann. N. Y. Acad. Sci. 1117, 40-50 (2007)
Han,J., Mech. Dev. 124 (9-10), 729-745 (2007)
Ghassibe,M., Eur. J. Pediatr. 165 (10), 734-735 (2006)

osteoblast differentiation. Probable morphogenetic role. May play a role in limb-pattern formation. In osteoblasts, suppresses transcription driven by the osteocalcin FGF response element (OCFRE). Binds to the homeodomain-response element of the ALPL promoter.

Cellular Location
Nucleus.

Msx2 Blocking Peptide (C-term) - Protocols

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

- Blocking Peptides