10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.875.1999

Msx2 Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2709a

Specification

Msx2 Antibody (N-term) Blocking Peptide - Product Information

Primary Accession P35548

Msx2 Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 4488

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

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP2709a was selected from the N-term region of human Msx2. 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.

Msx2 Antibody (N-term) Blocking Peptide - 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 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.

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Msx2 Antibody (N-term) Blocking Peptide - Protocols

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

- Blocking Peptides

Msx2 Antibody (N-term) Blocking Peptide - Images

Msx2 Antibody (N-term) Blocking Peptide - Background

Msx2 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. This 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 the Msx2 gene are associated with parietal foramina 1 and craniosynostosis type 2.

Msx2 Antibody (N-term) Blocking Peptide - 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)