

**MSX2 Antibody (Center) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP14677c****Specification**

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**MSX2 Antibody (Center) Blocking Peptide - Product Information**

Primary Accession [P35548](#)

**MSX2 Antibody (Center) Blocking Peptide - Additional Information**

**Gene ID** 4488

**Other Names**

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

**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 (Center) 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.

**MSX2 Antibody (Center) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

**MSX2 Antibody (Center) Blocking Peptide - Images****MSX2 Antibody (Center) Blocking Peptide - 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 Antibody (Center) Blocking Peptide - References**

Nikopensius, T., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(9):748-756(2010) Satoh, K., et al. J. Gastroenterol. 45(7):763-770(2010) Doi, T., et al. J. Pediatr. Surg. 45(6):1187-1191(2010) Jagomagi, T., et al. Eur. J. Oral Sci. 118(3):213-220(2010) Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) :