

MSX2 Antibody (Center)
Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP14677c

Specification

MSX2 Antibody (Center) - Product Information

Application	WB,E
Primary Accession	P35548
Other Accession	Q03356 , P70354 , P52953 , Q03358 , P28362 , Q0P5C3 , P13297 , P28360 , P28361 , Q02786 , P35993 , P50223 , NP_002440.2
Reactivity Predicted	Human Chicken, Xenopus, Bovine, Mouse, Rat, Zebrafish
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit Ig
Calculated MW	28897
Antigen Region	120-148

MSX2 Antibody (Center) - Additional Information

Gene ID 4488

Other Names

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

Target/Specificity

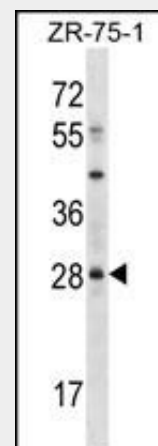
This MSX2 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 120-148 amino acids from the Central region of human MSX2.

Dilution

WB~1:1000

Format

Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.



MSX2 Antibody (Center) (Cat. #AP14677c) western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the MSX2 antibody detected the MSX2 protein (arrow).

MSX2 Antibody (Center) - 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) - References

Nikopensius, T., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(9):748-756(2010)
Satoh, K., et al. J. Gastroenterol.

Storage

Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions

MSX2 Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

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) :

MSX2 Antibody (Center) - 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) - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)