

Rabbit MSX2 Polyclonal Antibody | anti-MSX2 antibody

MSX2 Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA284373	Rabbit	Human (Predicted Reactivity: Chicken, Xenopus, Bovine, Mouse, Rat, Zebrafish)	ELISA, Western Blot

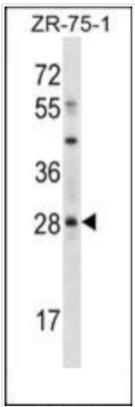
PRODUCT SYNONYMS

MSX2; Polyclonal Antibody; MSX2 Antibody (Center); Homeobox protein MSX-2; Homeobox protein Hox-8; HOX8; anti-MSX2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human (Predicted Reactivity: Chicken, Xenopus, Bovine, Mouse, Rat, Zebrafish)
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Sequence Positions	120-148
Sequence Length	267
Applicable Applications for anti-MSX2 antibody	ELISA, WB (Western Blot)
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.
Preparation and 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.

IMAGES



WB (Western Blot)
MSX2 Antibody (Center) AAA284373 western blot analysis in ZR-75-1 cell line lysates (35ug/lane). This demonstrates the MSX2 antibody detected the MSX2 protein (arrow).

ADDITIONAL INFORMATION

Related Product Information for anti-MSX2 antibody	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.
Product Categories/Family for anti-MSX2 antibody	Cancer; Cardiovascular; Neuroscience
References	Nikopensius, T., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(9):748-756(2010) Sato, 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) :

NCBI AND UNIPROT INFORMATION

NCBI GI #	27886557
NCBI GeneID	4488
NCBI Accession #	NP_002440.2
NCBI GenBank Nucleotide #	NM_002449.4
UniProt Accession #	P35548; Q53XM4; Q9UD60; D3DQN1
Molecular Weight	28897
NCBI Official Full Name	homeobox protein MSX-2
NCBI Official Synonym Full Names	msh homeobox 2
NCBI Official Symbol	MSX2
NCBI Official Synonym Symbols	FPP; MSH; PFM; CRS2; HOX8; PFM1
NCBI Protein Information	homeobox protein MSX-2
UniProt Protein Name	Homeobox protein MSX-2
UniProt Gene Name	MSX2
UniProt Synonym Gene Names	HOX8

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/msx2-antibody-western-blot-elisa/284373>