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Msx2 Antibody (C-term)

Affinity Purified Rabbit Polyclonal Antibody (Pab)
Catalog # AP2709B

Specification

Msx2 Antibody (C-term) - Product Information

Application	**WB, IHC-P,E**
Primary Accession	P35548
Reactivity	**Human**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit IgG**
Calculated MW	**28897**
Antigen Region	**191-222**

Msx2 Antibody (C-term) - 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 191-222 amino acids from the C-terminal region of human Msx2.

Dilution
WB~~1:1000
IHC-P~~1:10~50

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.

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 (C-term) is for research use only and not for use in diagnostic or therapeutic procedures.

Msx2 Antibody (C-term) - Protein Information

Name MSX2

Synonyms HOX8

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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.

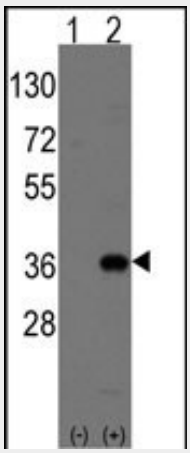
Cellular Location
Nucleus.

Msx2 Antibody (C-term) - Protocols

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

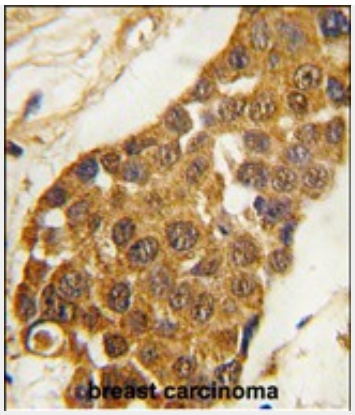
- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Msx2 Antibody (C-term) - Images



Western blot analysis of Msx2 (arrow) using rabbit polyclonal Msx2 Antibody (Human C-term) (Cat.#AP2709b). 293 cell lysates (2 ug/lane) either nontransfected (Lane 1) or transiently transfected with the Msx2 gene (Lane 2) (Origene Technologies).

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Formalin-fixed and paraffin-embedded human breast carcinoma tissue reacted with Msx2 Antibody (C-term) (Cat.#AP2709b), which was peroxidase-conjugated to the secondary antibody, followed by DAB staining. This data demonstrates the use of this antibody for immunohistochemistry; clinical relevance has not been evaluated.

Msx2 Antibody (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 Antibody (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)