

Rabbit MSX1 Polyclonal Antibody | anti-MSX1 antibody

MSX1 Antibody (Center)

CATALOG # AAA287349	HOST Rabbit	REACTIVITY Human, mouse (Predicted Reactivity: Bovine)	APPLICATIONS Immunofluorescence, ELISA, Western Blot
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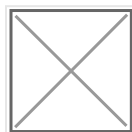
PRODUCT SYNONYMS

MSX1; Polyclonal Antibody; MSX1 Antibody (Center); Homeobox protein MSX-1; Homeobox protein Hox-7; Msh homeobox 1-like protein; HOX7; anti-MSX1 antibody

PRODUCT SPECIFICATIONS

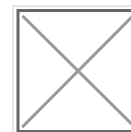
Host	Rabbit
Reactivity	Human, mouse (Predicted Reactivity: Bovine)
Clonality	Polyclonal
Isotype	Rabbit Ig
Specificity	This MSX1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 111-138 amino acids from the Central region of human MSX1.
Purity/Purification	This antibody is purified through a protein A column, followed by peptide affinity purification.
Form/Format	Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide.
Sequence Positions	111-138
Sequence Length	303
Applicable Applications for anti-MSX1 antibody	IF (Immunofluorescence), ELISA, WB (Western Blot)
Function	Acts as a transcriptional repressor. May play a role in limb- pattern formation. Acts in cranofacial development and specifically in odontogenesis. Expression in the developing nail bed mesenchyme is important for nail plate thickness and integrity.
Cellular Location	Nucleus.
Tissue Location	Expressed in the developing nail bed mesenchyme.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 2 weeks. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.

IMAGES



IF (Immunofluorescence)

Fluorescent confocal image of SY5Y cells stained with MSX1 (Center) antibody. SY5Y cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.2%, 30 min). Cells were then incubated with AAA287349 MSX1 (Center) primary antibody (1:200, 2 h at room temperature). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:1000, 1h). Nuclei were counterstained with Hoechst 33342 (blue) (10 ug/ml, 5 min). Note the highly specific localization of the MSX1 mainly to the nucleus.



WB (Western Blot)

MSX1 Antibody (Center) western blot analysis in mouse spleen tissue lysates (35ug/lane). This demonstrates the MSX1 antibody detected the MSX1 protein (arrow).



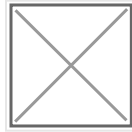
WB (Western Blot)

MSX1 Antibody (Center) western blot analysis in A375 cell line lysates (35ug/lane). This demonstrates the MSX1 antibody detected the MSX1 protein (arrow).



IF (Immunofluorescence)

Fluorescent image of U251 cell stained with MSX1 Antibody (Center). U251 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with MSX1 primary antibody (1:25, 1 h at 37 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree). Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree). MSX1 immunoreactivity is localized to Nucleus significantly.



WB (Western Blot)

Anti-MSX1 Antibody (Center) at 1:2000 dilution + mouse spleen lysates. Lysates/proteins at 20 ug per lane. Secondary Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated at 1/10000 dilution. Predicted band size : 31 kDa. Blocking/Dilution buffer: 5% NFDm/TBST.

ADDITIONAL INFORMATION

Product Categories/Family for anti-MSX1 antibody	Developmental biology ; Neuroscience ; Signal transduction
References	References for protein: 1. Sliwinski, T., et al. Cancer Epidemiol 34(5):652-655(2010) 2. Nikopensius, T., et al. Birth Defects Res. Part A Clin. Mol. Teratol. 88(9):748-756(2010) 3. Suazo, J., et al. Am. J. Med. Genet. A 152A (8), 2011-2016 (2010) : 4. Doi, T., et al. J. Pediatr. Surg. 45(6):1187-1191(2010) 5. Jugessur, A., et al. PLoS ONE 5 (7), E11493 (2010) References for SY5Y (SH-SY5Y; #CRL-2266): 1. Ross RA, et al. Coordinate morphological and biochemical interconversion of human neuroblastoma cells. J. Natl. Cancer Inst. 71: 741-749, 1983. [PubMed: 6137586]; 2. Biedler JL, et al. Multiple neurotransmitter synthesis by human neuroblastoma cell lines and clones. Cancer Res. 38: 3751-3757, 1978. [PubMed: 29704].

NCBI AND UNIPROT INFORMATION

NCBI GI #	118582284
NCBI GeneID	4487
NCBI Accession #	NP_002439.2
NCBI GenBank Nucleotide #	NM_002448.3
UniProt Accession #	P28360 ; Q96NY4 ; A0SZU5 ; A8K3M1
NCBI Official Full Name	homeobox protein MSX-1
NCBI Official Synonym Full Names	msh homeobox 1
NCBI Official Symbol	MSX1
NCBI Official Synonym Symbols	HOX7; HYD1; ECTD3; STHAG1
NCBI Protein Information	homeobox protein MSX-1
UniProt Protein Name	Homeobox protein MSX-1
UniProt Gene Name	MSX1
UniProt Synonym Gene Names	HOX7

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/msx1-antibody-immunofluorescence-western-blot-elisa/287349>