

**HOXA1 Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP18470a****Specification**

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**HOXA1 Antibody (N-term) - Product Information**

Application	WB,E
Primary Accession	<a href="#">P49639</a>
Other Accession	<a href="#">NP_005513.1</a>
Reactivity	Human, Mouse
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	36660
Antigen Region	9-35

**HOXA1 Antibody (N-term) - Additional Information****Gene ID** 3198**Other Names**

Homeobox protein Hox-A1, Homeobox protein Hox-1F, HOXA1, HOX1F

**Target/Specificity**

This HOXA1 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 9-35 amino acids from the N-terminal region of human HOXA1.

**Dilution**

WB~~1:1000

E~~Use at an assay dependent concentration.

**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**

HOXA1 Antibody (N-term) is for research use only and not for use in diagnostic or therapeutic procedures.

**HOXA1 Antibody (N-term) - Protein Information****Name** HOXA1**Synonyms** HOX1F

**Function** Sequence-specific transcription factor (By similarity). Regulates multiple developmental processes including brainstem, inner and outer ear, abducens nerve and cardiovascular development and morphogenesis as well as cognition and behavior (PubMed:[16155570](#)). Also part of a developmental regulatory system that provides cells with specific positional identities on the anterior-posterior axis. Acts on the anterior body structures. Seems to act in the maintenance and/or generation of hindbrain segments (By similarity). Activates transcription in the presence of PBX1A and PKNOX1 (By similarity).

**Cellular Location**

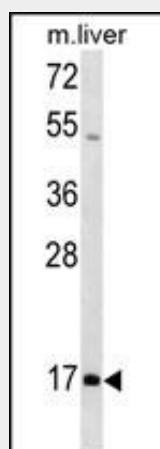
Nucleus {ECO:0000250|UniProtKB:P09022}.

**HOXA1 Antibody (N-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 Cytometry](#)
- [Cell Culture](#)

**HOXA1 Antibody (N-term) - Images**



HOXA1 Antibody (N-term) (Cat. #AP18470a) western blot analysis in mouse liver tissue lysates (35ug/lane). This demonstrates the HOXA1 antibody detected the HOXA1 protein (arrow).

**HOXA1 Antibody (N-term) - Background**

In vertebrates, the genes encoding the class of transcription factors called homeobox genes are found in clusters named A, B, C, and D on four separate chromosomes. Expression of these proteins is spatially and temporally regulated during embryonic development. This gene is part of the A cluster on chromosome 7 and encodes a DNA-binding transcription factor which may regulate gene expression, morphogenesis, and differentiation. The encoded protein may be involved in the placement of hindbrain segments in the proper location along the anterior-posterior axis

during development. Two transcript variants encoding two different isoforms have been found for this gene, with only one of the isoforms containing the homeodomain region.

#### **HOXA1 Antibody (N-term) - References**

Rankin, J.K., et al. J AAPOS 14(1):78-80(2010)

Muscarella, L.A., et al. Mol Autism 1 (1), 9 (2010) :

Canu, E., et al. J Neuroimaging 19(4):353-358(2009)

Gratacos, M., et al. Am. J. Med. Genet. B Neuropsychiatr. Genet. 150B (6), 808-816 (2009) :

Chakrabarti, B., et al. Autism Res 2(3):157-177(2009)