

**HOXA1 Antibody (N-term) Blocking Peptide**  
**Synthetic peptide**  
**Catalog # BP18470a****Specification**

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**HOXA1 Antibody (N-term) Blocking Peptide - Product Information**Primary Accession [P49639](#)**HOXA1 Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 3198**Other Names**

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

**Format**

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

**Storage**

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

**Precautions**

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

**HOXA1 Antibody (N-term) Blocking Peptide - 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:<a href="http://www.uniprot.org/citations/16155570" target="\_blank">16155570</a>). 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) Blocking Peptide - Protocols**

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

- [Blocking Peptides](#)

#### **HOXA1 Antibody (N-term) Blocking Peptide - Images**

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

Rankin, J.K., et al. J AAPOS 14(1):78-80(2010) Muscarella, L.A., et al. Mol Autism 1 (1), 9 (2010)  
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Neuropsychiatr. Genet. 150B (6), 808-816 (2009) :Chakrabarti, B., et al. Autism Res  
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