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HOXA1 Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP18470a

Specification

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: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) Blocking Peptide - Protocols

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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 oftranscription factors called homeobox genes are found in clustersnamed A, B, C, and D on four separate chromosomes. Expression ofthese proteins is spatially and temporally regulated duringembryonic development. This gene is part of the A cluster onchromosome 7 and encodes a DNA-binding transcription factor whichmay regulate gene expression, morphogenesis, and differentiation.The encoded protein may be involved in the placement of hindbrainsegments in the proper location along the anterior-posterior axisduring development. Two transcript variants encoding two differentisoforms have been found for this gene, with only one of theisoforms 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) :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)