

Arx Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP2701a**Specification**

Arx Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [O35085](#)**Arx Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 11878**Other Names**

Homeobox protein ARX, Aristaless-related homeobox, Arx

Target/Specificity

The synthetic peptide sequence used to generate the antibody [AP2701a](#) was selected from the N-term region of human Arx. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

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.

Arx Antibody (N-term) Blocking Peptide - Protein Information**Name** Arx**Function**

Transcription factor (By similarity). Binds to specific sequence motif 5'-TAATTA-3' in regulatory elements of target genes, such as histone demethylase KDM5C (By similarity). Positively modulates transcription of KDM5C (PubMed: [31691806](http://www.uniprot.org/citations/31691806)). Activates expression of KDM5C synergistically with histone lysine demethylase PHF8 and perhaps in competition with transcription regulator ZNF711; synergy may be related to enrichment of histone H3K4me3 in regulatory elements (By similarity). Required for normal brain development (PubMed: [12379852](http://www.uniprot.org/citations/12379852)). Plays a role in neuronal proliferation, interneuronal migration and differentiation in the embryonic forebrain (PubMed: [12379852](http://www.uniprot.org/citations/12379852), PubMed: [31691806](http://www.uniprot.org/citations/31691806)). May also be involved in axonal guidance in the floor plate (PubMed: [9256348](http://www.uniprot.org/citations/9256348)).

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108, ECO:0000255|PROSITE-ProRule:PRU00138}

Arx Antibody (N-term) Blocking Peptide - Protocols

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

- [Blocking Peptides](#)

Arx Antibody (N-term) Blocking Peptide - Images**Arx Antibody (N-term) Blocking Peptide - Background**

Arx contains two conserved domains, a C-peptide (or aristaless domain) and the prd-like class homeobox domain. It is a member of the group-II aristaless-related protein family whose members are expressed primarily in the central and/or peripheral nervous system. This protein is thought to be involved in CNS development. Mutations in the Arx gene cause X-linked mental retardation and epilepsy.

Arx Antibody (N-term) Blocking Peptide - References

Miura H., Mech. Dev. 65:99-109(1997).