

ARX Antibody (N-term) Blocking Peptide
Synthetic peptide
Catalog # BP16723a**Specification**

ARX Antibody (N-term) Blocking Peptide - Product InformationPrimary Accession [Q96QS3](#)**ARX Antibody (N-term) Blocking Peptide - Additional Information****Gene ID** 170302**Other Names**

Homeobox protein ARX, Aristaless-related homeobox, ARX

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 (PubMed: [22194193](http://www.uniprot.org/citations/22194193), PubMed: [31691806](http://www.uniprot.org/citations/31691806)). Binds to specific sequence motif 5'-TAATTA-3' in regulatory elements of target genes, such as histone demethylase KDM5C (PubMed: [22194193](http://www.uniprot.org/citations/22194193), PubMed: [31691806](http://www.uniprot.org/citations/31691806)). 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 (PubMed: [31691806](http://www.uniprot.org/citations/31691806)). Required for normal brain development (PubMed: [11889467](http://www.uniprot.org/citations/11889467), PubMed: [12379852](http://www.uniprot.org/citations/12379852), PubMed: [14722918](http://www.uniprot.org/citations/14722918)). Plays a role in neuronal proliferation, interneuronal migration and differentiation in the embryonic forebrain (By similarity). May also be involved in axonal guidance in the floor plate (By similarity).

Cellular Location

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

Tissue Location

Expressed predominantly in fetal and adult brain and skeletal muscle. Expression is specific to the telencephalon and ventral thalamus. There is an absence of expression in the cerebellum throughout development and also in adult.

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**

This gene is a homeobox-containing gene expressed during development. The expressed protein 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 gene is thought to be involved in CNS development. Mutations in this gene cause X-linked mental retardation and epilepsy.

ARX Antibody (N-term) Blocking Peptide - References

Shoubridge, C., et al. Hum. Mutat. 31(8):889-900(2010) Fullston, T., et al. Eur. J. Hum. Genet. 18(2):157-162(2010) Nabbout, R., et al. Epilepsy Res. 87(1):25-30(2009) Kitamura, K., et al. Hum. Mol. Genet. 18(19):3708-3724(2009) Price, M.G., et al. J. Neurosci. 29(27):8752-8763(2009)