

**ARX Antibody (N-term)**  
**Affinity Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP16723A****Specification**

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

Application	WB,E
Primary Accession	<a href="#">O96Q53</a>
Other Accession	<a href="#">NP_620689.1</a>
Reactivity	Human
Host	Rabbit
Clonality	Polyclonal
Isotype	Rabbit IgG
Calculated MW	58160
Antigen Region	40-69

**ARX Antibody (N-term) - Additional Information****Gene ID** 170302**Other Names**

Homeobox protein ARX, Aristaless-related homeobox, ARX

**Target/Specificity**

This ARX antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 40-69 amino acids from the N-terminal region of human ARX.

**Dilution**

WB~~1:1000

**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**

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

**ARX Antibody (N-term) - Protein Information****Name** ARX

**Function** Transcription factor (PubMed:[22194193](#), PubMed:[31691806](#)). Binds to specific sequence motif 5'-TAATTA-3' in regulatory elements of target genes, such as histone demethylase KDM5C

(PubMed:[22194193](#), PubMed:[31691806](#)). Positively modulates transcription of KDM5C (PubMed:[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](#)). Required for normal brain development (PubMed:[11889467](#), PubMed:[12379852](#), PubMed:[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

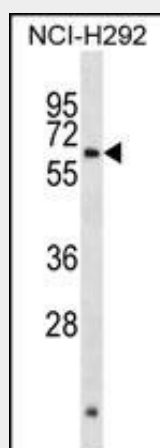
Expressed predominantly in fetal and adult brain and skeletal muscle. Expression is specific to the telencephalon and ventral thalamus. There is an absence of expression in the cerebellum throughout development and also in adult.

### ARX Antibody (N-term) - 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](#)

### ARX Antibody (N-term) - Images



ARX Antibody (N-term) (Cat. #AP16723a) western blot analysis in NCI-H292 cell line lysates (35ug/lane). This demonstrates the ARX antibody detected the ARX protein (arrow).

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

Shoubbridge, 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)