

ARX Polyclonal Antibody
Catalog # AP68529**Specification**

ARX Polyclonal Antibody - Product Information

Application	WB
Primary Accession	Q96QS3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal

ARX Polyclonal Antibody - Additional Information**Gene ID** 170302**Other Names**

ARX; Homeobox protein ARX; Aristaless-related homeobox

Dilution

WB~~Western Blot: 1/500 - 1/2000. ELISA: 1/5000. Not yet tested in other applications.

Format

Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.

Storage Conditions

-20°C

ARX Polyclonal Antibody - 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

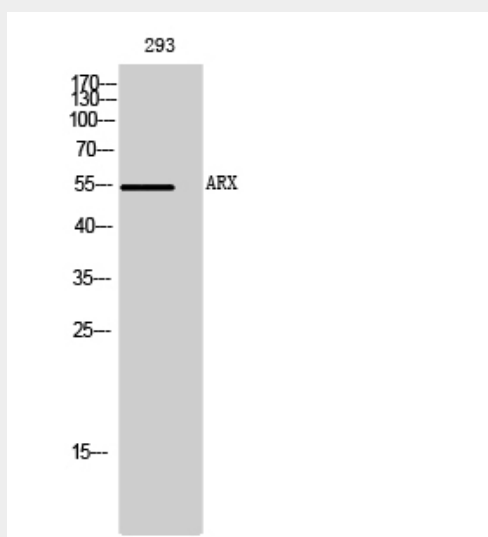
Expressed predominantly in fetal and adult brain and skeletal muscle. Expression is specific to the telencephalon and ventral thalamus. There is an absence of expression in the cerebellum throughout development and also in adult.

ARX Polyclonal Antibody - 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 Polyclonal Antibody - Images



Western Blot analysis of 293 cells using ARX Polyclonal Antibody cells nucleus extracted by Minute TM Cytoplasmic and Nuclear Fractionation kit (SC-003, Invent biotech, MN, USA).

ARX Polyclonal Antibody - Background

Transcription factor required for normal brain development. May be important for maintenance of specific neuronal subtypes in the cerebral cortex and axonal guidance in the floor plate.