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ARX Polyclonal Antibody

Catalog # AP68529

Product Information

Application	WB, E
Primary Accession	Q96QS3
Reactivity	Human, Mouse, Rat
Host	Rabbit
Clonality	Polyclonal
Calculated MW	58160

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. E~~N/A
Format	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.09% (W/V) sodium azide.
Storage Conditions	-20℃

Protein Information

Name	ARX {ECO:0000303|PubMed:12359145, ECO:0000312|HGNC:HGNC:18060}
Function	DNA-binding transcription factor that plays a central role in the differentiation and development of type A pancreatic cells, which are located in the islets of Langerhans and secrete glucagon (By similarity). Binds to specific sequence motif 5'-TAATTA-3' in regulatory elements of target genes (PubMed:22194193, PubMed:31691806). Also plays a key role in intestinal enteroendocrine cell differentiation by promoting differentiation of intestinal enteroendocrine cell types L, -N, -D, -I and -G (PubMed:37883554). Required for normal brain development: plays a role in neuronal proliferation, interneuronal migration and differentiation in the embryonic forebrain (PubMed:11889467, PubMed:12379852, PubMed:14722918). May also be involved in axonal guidance in the floor plate (By similarity). Promotes expression of 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).
Cellular Location	Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108,

ECO:0000255|PROSITE-ProRule:PRU00138, ECO:0000269|PubMed:22194193}
Chromosome

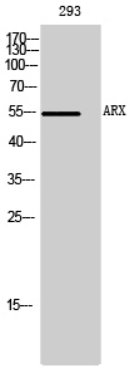
Tissue Location

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.

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.

Images



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

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