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Goat anti-ARX Antibody

Peptide-affinity purified goat antibody
Catalog # AF4468a

Product Information

Application	WB, Pep-ELISA
Primary Accession	Q96QS3
Other Accession	NP_620689.1
Reactivity	Human, Mouse, Rat, Dog
Host	Goat
Clonality	Polyclonal
Clone Names	ARX
Calculated MW	58160

Additional Information

Gene ID	170302
Other Names	ARX; aristaless related homeobox; ISSX; MRX29; MRX32; MRX33; MRX36; MRX38; MRX43; MRX54; MRXS1; PRTS; Infantile spasm syndrome, X-linked; aristaless-related homeobox, X-linked
Dilution	WB~~1:1000 Pep-ELISA~~N/A
Format	Supplied at 0.5 mg/ml in Tris saline, 0.02% sodium azide, pH7.3 with 0.5% bovine serum albumin. Aliquot and store at -20°C. Minimize freezing and thawing.
Storage	Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.
Precautions	Goat anti-ARX Antibody is for research use only and not for use in diagnostic or therapeutic procedures.

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.