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ARX Antibody (monoclonal) (M04)

Mouse monoclonal antibody raised against a partial recombinant ARX.
Catalog # AT1206a

Product Information

Application	IHC, E
Primary Accession	Q96QS3
Other Accession	NM_139058
Reactivity	Human
Host	Mouse
Clonality	monoclonal
Isotype	IgG2b Kappa
Clone Names	4H8
Calculated MW	58160

Additional Information

Gene ID	170302
Other Names	Homeobox protein ARX, Aristaless-related homeobox, ARX
Target/Specificity	ARX (NP_620689, 1 a.a. ~ 95 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.
Dilution	IHC~~1:100~500 E~~N/A
Format	Clear, colorless solution in phosphate buffered saline, pH 7.2 .
Storage	Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.
Precautions	ARX Antibody (monoclonal) (M04) is for research use only and not for use in diagnostic or therapeutic procedures.

Background

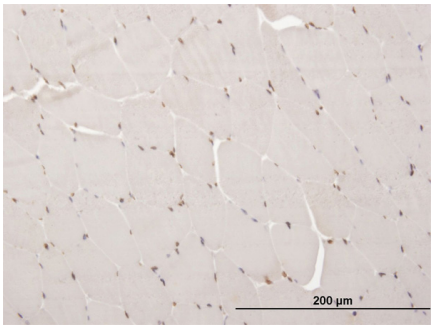
This gene is a homeobox-containing gene expressed during development. The expressed protein contains two conserved domains, a C-peptide (or aristaless domain) and the prd-like class homeobox domain. It is a member of the group-II aristaless-related protein family whose members are expressed primarily 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.

References

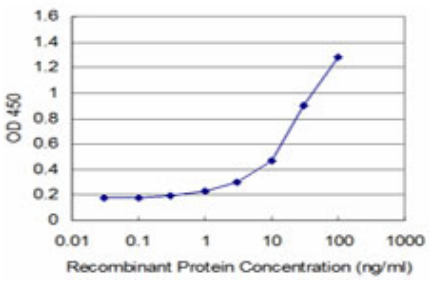
Ohtahara syndrome in a family with an ARX protein truncation mutation (c.81C>G/p.Y27X). Fullston T, et al. Eur J Hum Genet, 2010 Feb. PMID 19738637.CDKL5 and ARX mutations are not responsible for early onset

severe myoclonic epilepsy in infancy. Nabbout R, et al. Epilepsy Res, 2009 Nov. PMID 19734009.Three human ARX mutations cause the lissencephaly-like and mental retardation with epilepsy-like pleiotropic phenotypes in mice. Kitamura K, et al. Hum Mol Genet, 2009 Oct 1. PMID 19605412.A triplet repeat expansion genetic mouse model of infantile spasms syndrome, Arx(GCG)10+7, with interneuronopathy, spasms in infancy, persistent seizures, and adult cognitive and behavioral impairment. Price MG, et al. J Neurosci, 2009 Jul 8. PMID 19587282.[ARX mutations and mental retardation of unknown etiology: three new cases in Spain] Romero-Rubio MT, et al. Rev Neurol, 2008 Dec 16-31. PMID 19085879.

Images



Immunoperoxidase of monoclonal antibody to ARX on formalin-fixed paraffin-embedded human skeletal muscle. [antibody concentration 3 ug/ml]



Detection limit for recombinant GST tagged ARX is approximately 0.3ng/ml as a capture antibody.