

Recombinant Human PHOX2A cell lysate

Cat. No. PHOX2A-1347HCL Lot. No. (See product label)

SPECIFICATION

Species

Human

Description

The protein encoded by this gene contains a paired-like homeodomain most similar to that of the *Drosophila aristaless* gene product. The encoded protein plays a central role in development of the autonomic nervous system. It regulates the expression of tyrosine hydroxylase and dopamine beta-hydroxylase, two catecholaminergic biosynthetic enzymes essential for the differentiation and maintenance of the noradrenergic neurotransmitter phenotype. The encoded protein has also been shown to regulate transcription of the alpha3 nicotinic acetylcholine receptor gene. Mutations in this gene have been associated with autosomal recessive congenital fibrosis of the extraocular muscles.

Size

100 ul

Storage Buffer

1X Sample Buffer (50 mM Tris-HCl, 2% SDS, 10% glycerol, 300 mM 2-mercaptoethanol, 0.01% Bromophenol blue)

Applications

Western Blot;

GENE INFORMATION

Gene NamePHOX2A paired-like homeobox 2a [*Homo sapiens*]**Official Symbol**

PHOX2A

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Synonyms	PHOX2A; paired-like homeobox 2a; aristaless (Drosophila) homeobox, aristaless homeobox (Drosophila), fibrosis of extraocular muscles, congenital, 2, autosomal recessive , ARIX, FEOM2, paired like (aristaless) homeobox 2a; paired mesoderm homeobox protein 2A; CFEOM2; PMX2A; arix homeodomain protein; ARIX1 homeodomain protein; aristaless homeobox homolog; aristaless homeobox protein homolog; ARIX; FEOM2; NCAM2; MGC52227;
Gene ID	401
mRNA Refseq	NM_005169
Protein Refseq	NP_005160
MIM	602753
UniProt ID	O14813
Chromosome Location	11q13.4
Pathway	SIDS Susceptibility Pathways, organism-specific biosystem;
Function	RNA polymerase II regulatory region sequence-specific DNA binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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