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Datasheet for ABIN1392094

anti-PHOX2A antibody (AA 41-140) (Alexa Fluor 488)

Overview

Quantity:	100 µL
Target:	PHOX2A
Binding Specificity:	AA 41-140
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHOX2A antibody is conjugated to Alexa Fluor 488
Application:	Western Blotting (WB), Immunofluorescence (Cultured Cells) (IF (cc)), Immunofluorescence (Paraffin-embedded Sections) (IF (p))

Product Details

Immunogen:	KLH conjugated synthetic peptide derived from human PHOX2A
Isotype:	IgG
Predicted Reactivity:	Human, Mouse, Rat, Cow, Sheep, Horse, Chicken, Rabbit
Purification:	Purified by Protein A.

Target Details

Target:	PHOX2A
Alternative Name:	PHOX2A/CFEOM2 (PHOX2A Products)
Background:	Synonyms: Aristaless homeobox Drosophila fibrosis of extraocular muscles congenital 2

Target Details

autosomal recessive, Aristaless homeobox gene homolog Drosophila, Aristaless homeobox homolog, Aristaless homeobox protein homolog, ARIX 1 homeodomain protein, ARIX, Arix homeodomain protein, ARIX1 homeodomain protein, CFEOM 2, CFEOM2, FEOM 2, FEOM2, Fibrosis of extraocular muscles congenital 2 autosomal recessive, MGC52227, NCAM 2, NCAM2, Paired like aristaless Homeobox 2A, Paired like homeobox 2a, Paired mesoderm homeobox 2a, Paired mesoderm homeobox protein 2A, Paired-like homeobox 2A, PHOX 2A, Phox2, Phox2a, PHX2A_HUMAN, Pmx 2a, Pmx2, Pmx2a.

Background: Phox2a (also designated Arix1) and Phox2b are closely related, paired-homeodomain transcription factors that are necessary for neuronal differentiation throughout the developing sympathetic, parasympathetic and enteric ganglia. All enteric nervous system cells evolve from the neural crest, and all cells that are undifferentiated initially express Phox2b. The cells that begin to differentiate along a neuronal lineage continue to express Phox2b, and begin to express Phox2a. Phox2b is required for the differentiation of all central and nonperipheral noradrenergic centers in the brain. In contrast, Phox2a controls only the differentiation of the main noradrenergic center of the brain, the locus ceruleus. Both Phox2a and Phox2b are crucial for the regulation of endogenous tyrosine hydroxylase and dopamine-beta hydroxylase, which are transiently expressed in neural crest cells. In addition, Phox2 proteins are sufficient to promote sympathetic neuron generation. The gene which encodes Phox2a maps to human chromosome 11q13.3-q13.4.

Application Details

Application Notes: IF(IHC-P) 1:50-200
IF(IHC-F) 1:50-200
IF(ICC) 1:50-200

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 µg/µL

Buffer: Aqueous buffered solution containing 0.01M TBS (pH 7.4) with 1 % BSA, 0.03 % Proclin300 and 50 % Glycerol.

Preservative: ProClin

Precaution of Use: This product contains ProClin: a POISONOUS AND HAZARDOUS SUBSTANCE, which should be

Handling

handled by trained staff only.

Storage: -20 °C

Storage Comment: Store at -20°C. Aliquot into multiple vials to avoid repeated freeze-thaw cycles.

Expiry Date: 12 months