

Datasheet

PHOX2A monoclonal antibody (M01), clone 4F6

Catalog Number: H00000401-M01

Regulation Status: For research use only (RUO)

Product Description: Mouse monoclonal antibody raised against a partial recombinant PHOX2A.

Clone Name: 4F6

Immunogen: PHOX2A (NP_005160, 1 a.a. ~ 90 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa.

Sequence:

MDYSYLSYDSCVAAMEASAYGDFGACSQPGGFQYS
PLRPAFPAAGPPCPALGSSNCALGALRDHQPAPYSAV
PYKFFPEPSGLHEKRKQ

Host: Mouse

Reactivity: Human, Rat

Applications: ELISA, IF, RNAi-Ab, WB-Ce, WB-Re, WB-Tr

(See our web site product page for detailed applications information)

Protocols: See our web site at <http://www.abnova.com/support/protocols.asp> or product page for detailed protocols

Isotype: IgG2a Kappa

Storage Buffer: In 1x PBS, pH 7.4

Storage Instruction: Store at -20°C or lower. Aliquot to avoid repeated freezing and thawing.

Entrez GeneID: 401

Gene Symbol: PHOX2A

Gene Alias: ARIX, CFEOM2, FEOM2, MGC52227, NCAM2, PMX2A

Gene Summary: 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 $\alpha 3$ nicotinic acetylcholine receptor gene. Mutations in this gene have been associated with autosomal recessive congenital fibrosis of the extraocular muscles. [provided by RefSeq]