

PHOX2A Antibody (Center) Blocking Peptide
Synthetic peptide
Catalog # BP9381c**Specification**

PHOX2A Antibody (Center) Blocking Peptide - Product Information

Primary Accession [O14813](#)

PHOX2A Antibody (Center) Blocking Peptide - Additional Information

Gene ID 401

Other Names

Paired mesoderm homeobox protein 2A, ARIX1 homeodomain protein, Aristaless homeobox protein homolog, Paired-like homeobox 2A, PHOX2A, ARIX, PMX2A

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PHOX2A Antibody (Center) Blocking Peptide - Protein Information

Name PHOX2A

Synonyms ARIX, PMX2A

Function

May be involved in regulating the specificity of expression of the catecholamine biosynthetic genes. Acts as a transcription activator/factor. Could maintain the noradrenergic phenotype.

Cellular Location

Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108}.

PHOX2A Antibody (Center) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

PHOX2A Antibody (Center) Blocking Peptide - Images

PHOX2A Antibody (Center) Blocking Peptide - Background

PHOX2A 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.

PHOX2A Antibody (Center) Blocking Peptide - References

Khan, A.O., et al. *Ophthalmic Genet.* 30(4):206-207(2009) Fan, Y., et al. *J. Neurochem.* 110(5):1502-1513(2009) Wilzen, A., et al. *Int. J. Oncol.* 34(3):697-705(2009) Longo, L., et al. *Int. J. Oncol.* 33(5):985-991(2008) Imai, S., et al. *Acta Med. Okayama* 62(1):45-53(2008) Swanson, D.J., et al. *J. Biol. Chem.* 275(4):2911-2923(2000)