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# 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

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## 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 alpha3 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)