

Datasheet for ABIN2777426  
**anti-PHOX2A antibody (N-Term)**



[Go to Product page](#)

2 Images

## Overview

Quantity:	100 µL
Target:	PHOX2A
Binding Specificity:	N-Term
Reactivity:	Human, Rat, Mouse, Cow, Dog, Guinea Pig, Horse, Rabbit, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHOX2A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (IHC)

## Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human PHOX2A
Sequence:	AVPYKFFPEP SGLHEKRKQR RIRTTFTSAQ LKELERVFAE THYPDIYTRE
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 92%
Characteristics:	This is a rabbit polyclonal antibody against PHOX2A. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

## Target Details

Target:	PHOX2A
---------	--------

## Target Details

---

Alternative Name: PHOX2A ([PHOX2A Products](#))

---

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. PHOX2A has also been shown to regulate transcription of the alpha3 nicotinic acetylcholine receptor gene. 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. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications.

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

Protein Interaction Partner: SP1, PHOX2A, HAND2, PRKACA, ATF6B, CREBBP, JUN,

Protein Size: 284

---

Molecular Weight: 30 kDa

---

Gene ID: 401

---

NCBI Accession: [NM\\_005169](#), [NP\\_005160](#)

---

UniProt: [O14813](#)

---

## Application Details

---

Application Notes: Optimal working dilutions should be determined experimentally by the investigator.

---

Comment: Antigen size: 284 AA

---

Restrictions: For Research Use only

---

## Handling

---

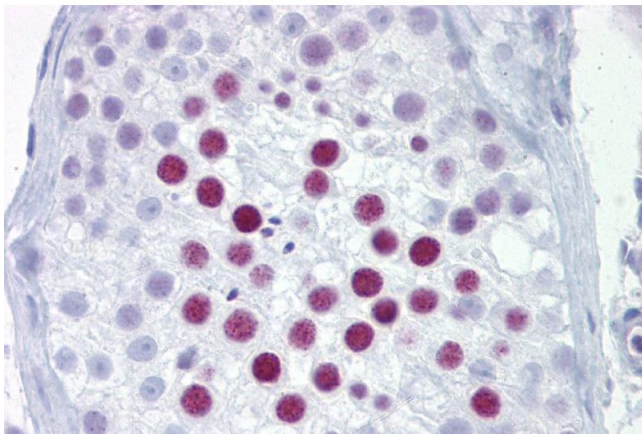
Format: Liquid

---

## Handling

Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

## Validation report #102749 for Immunohistochemistry (IHC)



### Immunohistochemistry

**Image 1.** Immunohistochemistry with Testis tissue at an antibody concentration of 5µg/ml using anti-PHOX2A antibody (ARP31726\_P050)



### Western Blotting

**Image 2.** WB Suggested Anti-PHOX2A Antibody Titration: 0.2-1 ug/ml ELISA Titer: 1:1562500 Positive Control: 721\_B cell lysate PHOX2A is supported by BioGPS gene expression data to be expressed in 721\_B