

## Product datasheet for **TA329397**

### PHOX2A Rabbit Polyclonal Antibody

#### Product data:

Product Type:	Primary Antibodies
Applications:	WB
Recommended Dilution:	WB
Reactivity:	Human
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Immunogen:	The immunogen for anti-PHOX2A antibody: synthetic peptide directed towards the N terminal of human PHOX2A. Synthetic peptide located within the following region: AVPYKFFPEPSGLHEKRKQRRIRTTFTSAQLKELERVFAETHYPDIYTRE
Formulation:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.
Conjugation:	Unconjugated
Storage:	Store at -20°C as received.
Stability:	Stable for 12 months from date of receipt.
Predicted Protein Size:	30 kDa
Gene Name:	paired like homeobox 2a
Database Link:	<a href="#">NP_005160</a> <a href="#">Entrez Gene 401 Human</a> <a href="#">O14813</a>



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**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.

**Synonyms:**

ARIX; CFEOM2; FEOM2; NCAM2; PMX2A

**Note:**

Immunogen sequence homology: Dog: 100%; Pig: 100%; Rat: 100%; Horse: 100%; Human: 100%; Mouse: 100%; Bovine: 100%; Rabbit: 100%; Guinea pig: 100%; Zebrafish: 92%

**Protein Families:**

Transcription Factors

**Product images:**

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