

# Product Datasheet

## PHOX2A Antibody (4F6) - Azide and BSA Free H00000401-M01

Unit Size: 0.1 mg

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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Updated 2/21/2025 v.20.1

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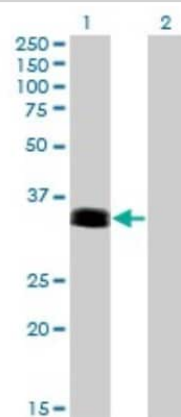
**H00000401-M01**

PHOX2A Antibody (4F6) - Azide and BSA Free

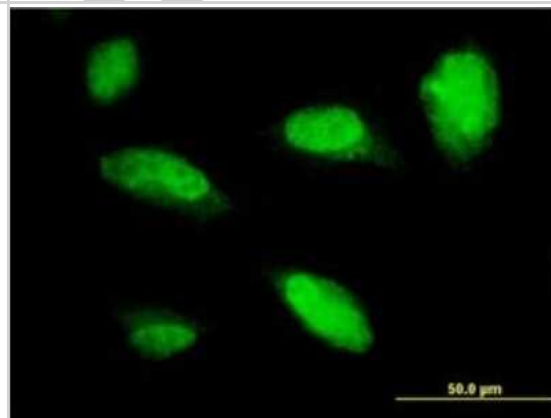
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
<b>Storage</b>	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	4F6
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG2a Kappa
<b>Purity</b>	IgG purified
<b>Buffer</b>	In 1x PBS, pH 7.4
<b>Product Description</b>	
<b>Description</b>	Quality control test: Antibody Reactive Against Recombinant Protein.
<b>Host</b>	Mouse
<b>Gene ID</b>	401
<b>Gene Symbol</b>	PHOX2A
<b>Species</b>	Human, Rat
<b>Specificity/Sensitivity</b>	PHOX2A - paired-like (aristaless) homeobox 2a
<b>Immunogen</b>	PHOX2A (NP_005160, 1 a.a. ~ 90 a.a) partial recombinant protein with GST tag. MW of the GST tag alone is 26 KDa. MDYSYLNSYDSCVAAMEASAYGDFGACSQPGGFQYSPLRPAFPAAGPPCPAL GSSNCALGALRDHQPAPYSAVPYKFFPEPSGLHEKRKQ
<b>Notes</b>	This product is produced by and distributed for Abnova, a company based in Taiwan.
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, ELISA, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Knockdown Validated
<b>Recommended Dilutions</b>	Western Blot 1:500, ELISA, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence, Knockdown Validated
<b>Application Notes</b>	Antibody reactivity against cell lysate and recombinant protein for WB. It has also been used for IF, RNAi Validation and ELISA. Use in Immunohistochemistry reported in scientific literature (PMID: 30315878).

## Images

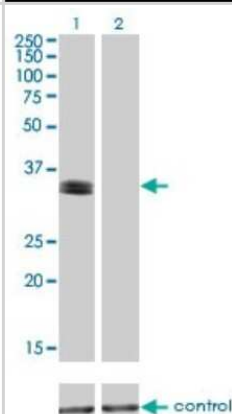
Western Blot: PHOX2A Antibody (4F6) [H00000401-M01] - Analysis of PHOX2A expression in transfected 293T cell line by PHOX2A monoclonal antibody (M01), clone 4F6. Lane 1: PHOX2A transfected lysate (29.7 KDa). Lane 2: Non-transfected lysate.



Immunocytochemistry/Immunofluorescence: PHOX2A Antibody (4F6) [H00000401-M01] - Analysis of monoclonal antibody to PHOX2A on HeLa cell. Antibody concentration 10 ug/ml.



Western Blot: PHOX2A Antibody (4F6) [H00000401-M01] - Analysis of PHOX2A over-expressed 293 cell line, cotransfected with PHOX2A Validated Chimera RNAi ( Cat # H00000401-R01V ) (Lane 2) or non-transfected control (Lane 1). Blot probed with PHOX2A monoclonal antibody (M01), clone 4F6 (Cat # H00000401-M01 ). GAPDH ( 36.1 kDa ) used as specificity and loading control.



Western Blot: PHOX2A Antibody (4F6) [H00000401-M01] - PHOX2A monoclonal antibody (M01), clone 4F6 Analysis of PHOX2A expression in PC-12.



## Publications

Fan Y, Chen P, Raza MU et al. Altered Expression of Phox2 Transcription Factors in the Locus Coeruleus in Major Depressive Disorder Mimicked by Chronic Stress and Corticosterone Treatment In Vivo and In Vitro. *Neuroscience*. 2018-10-11 [PMID: 30315878] (IF/IHC, Rat)



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### Products Related to H00000401-M01

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HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-96981-0.5mg	Mouse IgG2a Kappa Isotype Control (M2AK)
H00000401-P01-10ug	Recombinant Human PHOX2A GST (N-Term) Protein

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### Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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