

Datasheet for ABIN6991686
anti-PHOX2A antibody (C-Term)



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Overview

Quantity:	0.1 mg
Target:	PHOX2A
Binding Specificity:	C-Term
Reactivity:	Human, Rat, Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHOX2A antibody is un-conjugated
Application:	Western Blotting (WB), ELISA, Immunofluorescence (IF), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	PHOX2A antibody was raised against a 16 amino acid synthetic peptide near the carboxy terminus of human PHOX2A. The immunogen is located within the last 50 amino acids of PHOX2A.
Isotype:	IgG
Specificity:	PHOX2A antibody is predicted to not cross-react with other paired homeobox family members.
Purification:	PHOX2A Antibody is affinity chromatography purified via peptide column.

Target Details

Target:	PHOX2A
Alternative Name:	PHOX2A (PHOX2A Products)

Target Details

Background: PHOX2A Antibody: PHOX2A and PHOX2B (Paired mesoderm homeobox protein) are closely related, paired-homeodomain transcription factors that function as determinants of the noradrenergic phenotype during embryogenesis. PHOX2 proteins are crucial for the regulation of endogenous hydroxylases in neural crest cells and promote sympathetic neuron generation. Human PHOX2B contains one DNA binding homeobox domain and is required for the differentiation of all central and nonperipheral noradrenergic centers in the brain. In contrast, PHOX2A controls only the differentiation of the main noradrenergic center of the brain. Regulation of PHOX2 may have therapeutic utility in aging or disorders involving degeneration of noradrenergic neurons.

Gene ID: 401

NCBI Accession: [NP_005160](#)

UniProt: [O14813](#)

Application Details

Application Notes: PHOX2A antibody can be used for detection of PHOX2A by Western blot at 1 µg/mL. Antibody can also be used for immunohistochemistry starting at 2.5 µg/mL. For immunofluorescence start at 2.5 µg/mL.

Antibody validated: Western Blot in rat samples, Immunohistochemistry in human samples and Immunofluorescence in human samples. All other applications and species not yet tested.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 1 mg/mL

Buffer: PHOX2A Antibody is supplied in PBS containing 0.02 % sodium azide.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C, 4 °C

Storage Comment: PHOX2A antibody can be stored at 4°C for three months and -20°C, stable for up to one year.

As with all antibodies care should be taken to avoid repeated freeze thaw cycles. Antibodies should not be exposed to prolonged high temperatures.