10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609

PHOX2B Antibody (Center)

Affinity Purified Rabbit Polyclonal Antibody (Pab)

Catalog # AP11341C

Specification

PHOX2B Antibody (Center) - Product Information

Application	**IF, WB,E**
Primary Accession	O99453
Other Accession	O35690, Q62782, Q62066, O14813, NP_003915.2, G5EC89
Reactivity	**Mouse**
Predicted	**C.Elegans, Human, Rat**
Host	**Rabbit**
Clonality	**Polyclonal**
Isotype	**Rabbit Ig**
Antigen Region	**104-130**

PHOX2B Antibody (Center) - Additional Information

Gene ID 8929

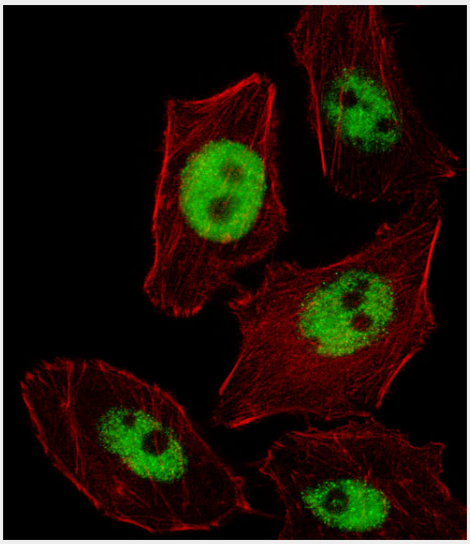
Other Names
Paired mesoderm homeobox protein 2B, Neuroblastoma Phox, NBPhox, PHOX2B homeodomain protein, Paired-like homeobox 2B, PHOX2B, PMX2B

Target/Specificity
This PHOX2B antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 104-130 amino acids from the Central region of human PHOX2B.

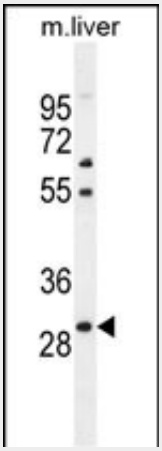
Dilution
IF~~1:10~50
WB~~1:1000

Format
Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification.

Storage
Maintain refrigerated at 2-8°C for up to 2



Fluorescent image of U251 cell stained with PHOX2B Antibody (Center)(Cat#AP11341c).U251 cells were fixed with 4% PFA (20 min), permeabilized with Triton X-100 (0.1%, 10 min), then incubated with PHOX2B primary antibody (1:25, 1 h at 37℃). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37℃).Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37℃).PHOX2B immunoreactivity is localized to Nucleus significantly.



weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

Precautions
PHOX2B Antibody (Center) is for research use only and not for use in diagnostic or therapeutic procedures.

PHOX2B Antibody (Center) - Protein Information

Name PHOX2B

Synonyms PMX2B

Function
Involved in the development of several major noradrenergic neuron populations, including the locus coeruleus. Transcription factor which could determine a neurotransmitter phenotype in vertebrates. Enhances second-messenger-mediated activation of the dopamine beta- hydrolase and c-fos promoters, and of several enhancers including cAMP- response element and serum-response element.

Cellular Location
Nucleus {ECO:0000255|PROSITE-ProRule:PRU00108}.

Tissue Location
Expressed in neuroblastoma, brain and adrenal gland

PHOX2B Antibody (Center) - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

PHOX2B Antibody (Center) (Cat. #AP11341c) western blot analysis in mouse liver tissue lysates (35ug/lane).This demonstrates the PHOX2B antibody detected the PHOX2B protein (arrow).

PHOX2B Antibody (Center) - Background

The DNA-associated protein encoded by this gene is a member of the paired family of homeobox proteins localized to the nucleus. The protein functions as a transcription factor involved in the development of several major noradrenergic neuron populations and the determination of neurotransmitter phenotype. The gene product is linked to enhancement of second messenger-mediated activation of the dopamine beta-hydroylase, c-fos promoters and several enhancers, including cyclic amp-response element and serum-response element. [provided by RefSeq].

PHOX2B Antibody (Center) - References

Rudzinski, E., et al. Pediatr. Dev. Pathol. 13(4):291-299(2010)
Janoueix-Lerosey, I., et al. Oncogene 29(11):1566-1579(2010)
Tu, E., et al. Hum. Pathol. 41(3):392-400(2010)
Arai, H., et al. J. Hum. Genet. 55(1):4-7(2010)
Dubreuil, V., et al. J. Neurosci. 29(47):14836-14846(2009)

PHOX2B Antibody (Center) - Citations

- The homeodomain transcription factor Phox2 in the stellate ganglion of the squid Loligo pealei.

10320 Camino Santa Fe, Suite G
San Diego, CA 92121
Tel: 858.875.1900 Fax: 858.622.0609