

Rabbit PHOX2B Polyclonal Antibody | anti-PHOX2B antibody

PHOX2B Antibody (Center)

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA286193	Rabbit	Mouse (Predicted Reactivity: Human, Rat)	Western Blot, ELISA, Immunofluorescence

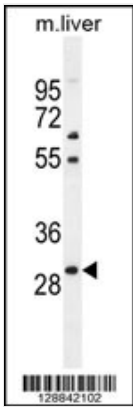
PRODUCT SYNONYMS

PHOX2B; Polyclonal Antibody; PHOX2B Antibody (Center); Paired mesoderm homeobox protein 2B; Neuroblastoma Phox; NBPhox; PHOX2B homeodomain protein; Paired-like homeobox 2B; PMX2B; anti-PHOX2B antibody

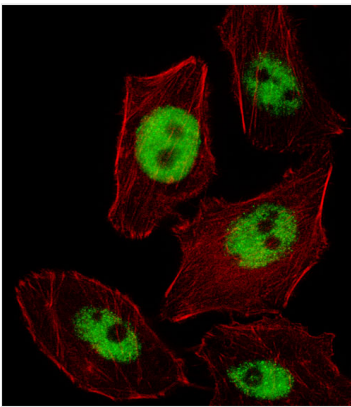
PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Mouse (Predicted Reactivity: Human, Rat)
Clonality	Polyclonal
Isotype	Rabbit Ig
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.
Purity/Purification	Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)
Form/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.
Concentration	Vial Concentration: 0.5 (varies by lot)
Sequence Positions	104-130
Sequence Length	314
Applicable Applications for anti-PHOX2B antibody	WB (Western Blot), ELISA, IF (Immunofluorescence)
Antigen Type	Synthetic Peptide
Antigen Source	HUMAN
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.
Preparation and Storage	Maintain refrigerated at 2-8°C for up to 2 weeks. For long term storage store at -20°C in small aliquots to prevent freeze-thaw cycles.

IMAGES



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



IF (Immunofluorescence)
Fluorescent image of U251 cell stained with PHOX2B Antibody (Center). 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 degree). For secondary antibody, Alexa Fluor 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 degree).Cytoplasmic actin was counterstained with Alexa Fluor 555 (red) conjugated Phalloidin (7units/ml, 1 h at 37 degree).PHOX2B immunoreactivity is localized to Nucleus significantly.

ADDITIONAL INFORMATION

Related Product Information for anti-PHOX2B antibody	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-hydroxylase, c-fos promoters and several enhancers, including cyclic amp-response element and serum-response element. [provided by RefSeq].
Product Categories/Family for anti-PHOX2B antibody	Neuroscience
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)

NCBI AND UNIPROT INFORMATION

NCBI GI #	12707580
NCBI GeneID	8929
NCBI Accession #	NP_003915.2
NCBI GenBank Nucleotide #	NM_003924.3
UniProt Accession #	Q99453; Q6PJD9
Molecular Weight	31621
NCBI Official Full Name	paired mesoderm homeobox protein 2B
NCBI Official Synonym Full Names	paired-like homeobox 2b
NCBI Official Symbol	PHOX2B

NCBI Official Synonym Symbols	PMX2B; NBLST2; NBPhox
NCBI Protein Information	paired mesoderm homeobox protein 2B
UniProt Protein Name	Paired mesoderm homeobox protein 2B
UniProt Gene Name	PHOX2B
UniProt Synonym Gene Names	PMX2B; NBPhox
UniProt Entry Name	PHX2B_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/phox2b-antibody-western-blot-immunofluorescence-elisa/286193>