abcam

Product datasheet

Anti-PHOX2B antibody - N-terminal ab227719

1 References 3 Images

Overview

Product name	Anti-PHOX2B antibody - N-terminal
Description	Rabbit polyclonal to PHOX2B - N-terminal
Host species	Rabbit
Tested applications	**Suitable for:** WB, IP
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Xenopus laevis
Immunogen	Synthetic peptide within Human PHOX2B (N terminal). The exact sequence is proprietary. Conjugated to a protein carrier. Database link: **Q99453**
Positive control	IP: IMR32 whole cell extract. WB: IMR32, SK-N-AS and SH-SY5Y whole cell extracts.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.00 Preservative: 0.025% Proclin 300 Constituents: 79% PBS, 20% Glycerol (glycerin, glycerine)
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab227719 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
WB		1/500 - 1/3000. Predicted molecular weight: 32 kDa.
IP		1/100 - 1/500.

Target

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.

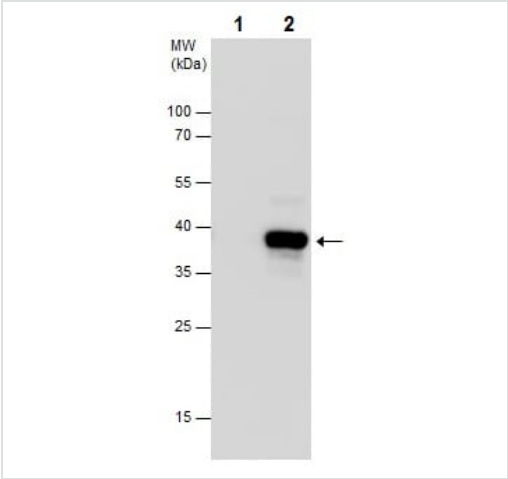
Tissue specificity Expressed in neuroblastoma, brain and adrenal gland.

Involvement in disease Defects in PHOX2B are a cause of congenital central hypoventilation syndrome (CCHS) [MIM:209880]; also known as congenital failure of autonomic control or Ondine curse. Most mutations consist of 5-10 alanine expansions in the poly-Ala region from amino acids 241-260. CCHS is a rare disorder characterized by abnormal control of respiration in the absence of neuromuscular or lung disease, or an identifiable brain stem lesion. A deficiency in autonomic control of respiration results in inadequate or negligible ventilatory and arousal responses to hypercapnia and hypoxemia. CCHS is frequently complicated with neurocristopathies such as Hirschsprung disease that occurs in about 16% of CCHS cases.
Defects in PHOX2B are the cause of susceptibility to neuroblastoma type 2 (NBLST2) [MIM:613013]. A common neoplasm of early childhood arising from embryonic cells that form the primitive neural crest and give rise to the adrenal medulla and the sympathetic nervous system.

Sequence similarities Belongs to the paired homeobox family.
Contains 1 homeobox DNA-binding domain.

Cellular localization Nucleus.

Images

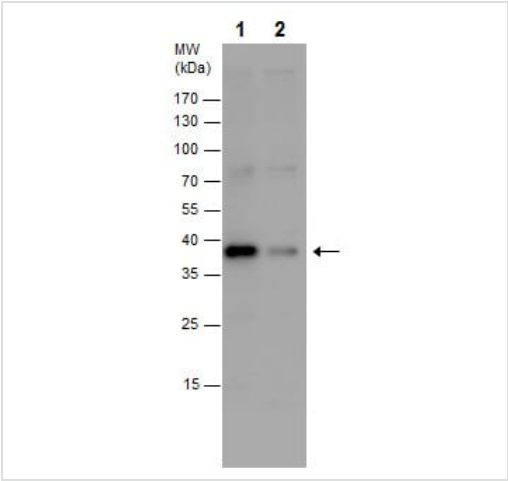


Immunoprecipitation - Anti-PHOX2B antibody - N-terminal (ab227719)

PHOX2B was immunoprecipitated from IMR32 (human neuroblast cell line) whole cell extract with 5 µg ab227719. Western blot was performed from the immunoprecipitate using ab227719. Anti-Rabbit IgG was used as a secondary reagent.

Lane 1: Control IgG IP in IMR32 whole cell extract.

Lane 2: ab227719 IP in IMR32 whole cell extract.



Western blot - Anti-PHOX2B antibody - N-terminal (ab227719)

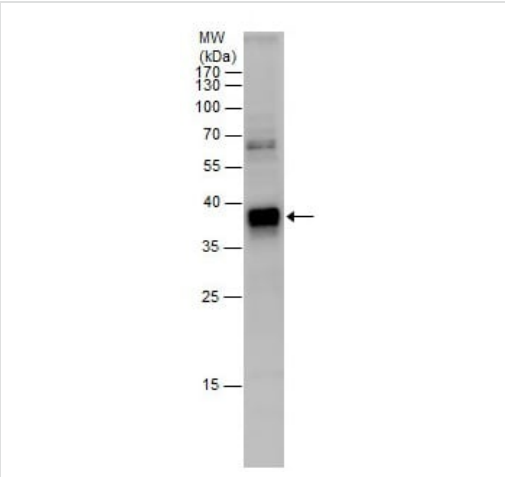
All lanes : Anti-PHOX2B antibody - N-terminal (ab227719) at 1/1000 dilution

Lane 1 : IMR32 (human neuroblast cell line) whole cell extract
Lane 2 : SK-N-AS (human neuroblastoma cell line) whole cell extract

Lysates/proteins at 30 µg per lane.

Predicted band size: 32 kDa

12% SDS-PAGE gel.



Western blot - Anti-PHOX2B antibody - N-terminal (ab227719)

Anti-PHOX2B antibody - N-terminal (ab227719) at 1/1000 dilution + SH-SY5Y (human neuroblastoma cell line from bone marrow) whole cell extract at 30 µg

Predicted band size: 32 kDa

12% SDS-PAGE gel.

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