

Datasheet for ABIN655288

anti-PHOX2B antibody (AA 104-130)**2** Images**1** Publication[Go to Product page](#)

Overview

Quantity:	400 µL
Target:	PHOX2B
Binding Specificity:	AA 104-130
Reactivity:	Mouse
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This PHOX2B antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	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.
Clone:	RB28842
Isotype:	Ig Fraction
Predicted Reactivity:	H, Rat
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	PHOX2B
Alternative Name:	PHOX2B (PHOX2B Products)

Target Details

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-hydroxylase, c-fos promoters and several enhancers, including cyclic amp-response element and serum-response element. [provided by RefSeq].
Molecular Weight:	31621
Gene ID:	8929
NCBI Accession:	NP_003915
UniProt:	Q99453

Application Details

Application Notes:	IF: 1:10~50. WB: 1:1000
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) 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:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

Product cited in:	Han, Liang, Yi, Tan, He, Wang, Li, Wu, Ma, Shi, Guo, Bai: "Long-Term Selenium-Deficient Diet Induces Liver Damage by Altering Hepatocyte Ultrastructure and MMP1/3 and TIMP1/3 Expression in Growing Rats." in: Biological trace element research , (2016) (PubMed).
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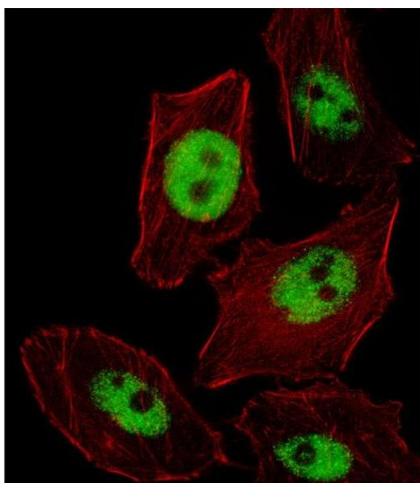
Peng, Xin, Han, Gao, Gao, Lei, Ji, An, Cao: "Expression and regulative function of tissue inhibitor of metalloproteinase 3 in the goat ovary and its role in cultured granulosa cells." in: **Molecular and cellular endocrinology**, Vol. 412, pp. 104-15, (2015) ([PubMed](#)).

Peng, Gao, Gao, Lei, Han, Xin, An, Cao: "Expression and regulation of tissue inhibitors of metalloproteinases (TIMP1 and TIMP3) in goat oviduct." in: **Theriogenology**, Vol. 84, Issue 9, pp. 1636-43, (2015) ([PubMed](#)).

Lu, Cao, Liu, Li, Chen, Fu, Zhang, Liu, Luo, Wang, Li, Caterson: "The effects of mycotoxins and selenium deficiency on tissue-engineered cartilage." in: **Cells, tissues, organs**, Vol. 196, Issue 3, pp. 241-50, (2012) ([PubMed](#)).

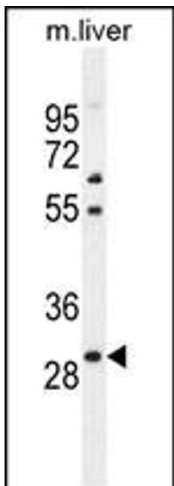
Liu, Cui, Ao, Zhou, Zhou, Yuan, Xiang, Liu, Cao et al.: "Aberrant methylation accounts for cell adhesion-related gene silencing during 3-methylcholanthrene and diethylnitrosamine induced multistep rat lung carcinogenesis associated with overexpression of ..." in: **Toxicology and applied pharmacology**, Vol. 251, Issue 1, pp. 70-8, (2011) ([PubMed](#)).

Images



Immunofluorescence

Image 1. Fluorescent image of cell stained with PHOX2B Antibody (Center) (ABIN655288 and ABIN2844878). 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 °C). For secondary antibody, Alexa Fluor® 488 conjugated donkey anti-rabbit antibody (green) was used (1:400, 50 min at 37 °C). Cytoplasmic actin was counterstained with Alexa Fluor® 555 (red) conjugated Phalloidin (7 units/mL, 1 h at 37 °C). PHOX2B immunoreactivity is localized to Nucleus significantly.



Western Blotting

Image 2. PHOX2B Antibody (Center) (ABIN655288 and ABIN2844878) western blot analysis in mouse liver tissue lysates (35 µg/lane). This demonstrates the PHOX2B antibody detected the PHOX2B protein (arrow).