

For Research Use Only

PHOX2B Monoclonal antibody

Catalog Number: 66254-1-Ig **2 Publications**



Basic Information

Catalog Number: 66254-1-Ig	GenBank Accession Number: BC017199	Purification Method: Protein A purification
Size: 1500 µg/ml	GeneID (NCBI): 8929	CloneNo.: 1F5F5
Source: Mouse	UNIPROT ID: Q99453	Recommended Dilutions: WB 1:1000-1:5000 IHC 1:20-1:200 IF 1:200-1:800
Isotype: IgG2a	Full Name: paired-like homeobox 2b	
Immunogen Catalog Number: AG13196	Calculated MW: 31 kDa	
	Observed MW: 32-36 kDa	

Applications

Tested Applications: IF/ICC, IHC, WB, ELISA	Positive Controls: WB : Neuro-2a cells, IHC : neuroblastoma tissue, IF : SH-SY5Y cells, Neuro-2a cells
Cited Applications: IF	
Species Specificity: human, mouse	
Cited Species: human, mouse	
Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0	

Background Information

Paired mesoderm homeobox protein 2B (PHOX2B), also named as Neuroblastoma Phox, is a 314 amino acid protein, which contains one homeobox DNA-binding domain and belongs to the paired homeobox family. PHOX2B localizes in the nucleus and is expressed in neuroblastoma, brain and adrenal gland. PHOX2B plays a role in the development of several major noradrenergic neuron populations, including the locus coeruleus. PHOX2B has an association with congenital central hypoventilation syndrome.

Notable Publications

Author	Pubmed ID	Journal	Application
Yunlong Tao	37974010	Nat Biotechnol	IF
Ouranio Anastasiou	32098802	Sci Signal	IF

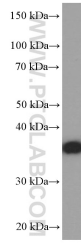
Storage

Storage:
Store at -20°C. Stable for one year after shipment.
Storage Buffer:
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.
Aliquoting is unnecessary for -20°C storage

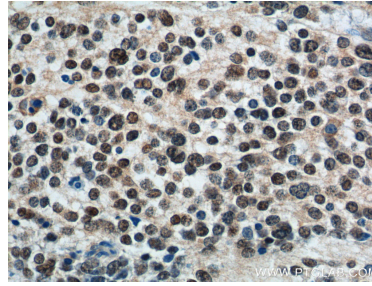
For technical support and original validation data for this product please contact:
T: 4006900926 E: Proteintech-CN@ptglab.com W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

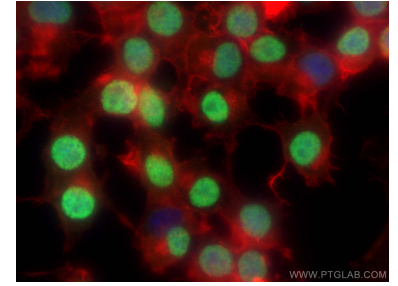
Selected Validation Data



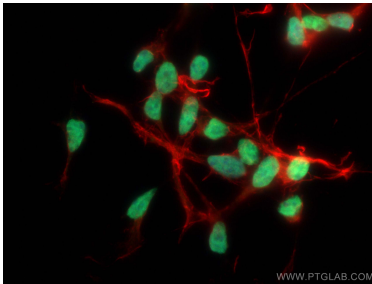
Neuro-2a cells were subjected to SDS PAGE followed by western blot with 66254-1-Ig (PHOX2B Antibody) at dilution of 1:2500 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffin-embedded neuroblastoma tissue slide using 66254-1-Ig (PHOX2B antibody) at dilution of 1:300 (under 40x lens).



Immunofluorescent analysis of (4% PFA) fixed Neuro-2a cells using PHOX2B antibody (66254-1-Ig, Clone: 1F5F5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).



Immunofluorescent analysis of (4% PFA) fixed SH-SY5Y cells using PHOX2B antibody (66254-1-Ig, Clone: 1F5F5) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Mouse IgG(H+L), CL594-phalloidin (red).