

For Research Use Only

# HOPX Polyclonal antibody

Catalog Number: 11419-1-AP

Featured Product

33 Publications



## Basic Information

<b>Catalog Number:</b> 11419-1-AP	<b>GenBank Accession Number:</b> BC014225	<b>Purification Method:</b> Antigen affinity purification
<b>Size:</b> 150ul , Concentration: 1000 µg/ml by Nanodrop;	<b>GeneID (NCBI):</b> 84525	<b>Recommended Dilutions:</b> WB 1:500-1:3000
<b>Source:</b> Rabbit	<b>UNIPROT ID:</b> Q9BPY8	
<b>Isotype:</b> IgG	<b>Full Name:</b> HOP homeobox	
<b>Immunogen Catalog Number:</b> AG1979	<b>Calculated MW:</b> 73 aa, 8 kDa	
	<b>Observed MW:</b> 8-12 kDa	

## Applications

<b>Tested Applications:</b> WB, IHC, ELISA	<b>Positive Controls:</b> WB : mouse lung tissue, mouse small intestine tissue, rat lung tissue
<b>Cited Applications:</b> WB, IF, IHC	
<b>Species Specificity:</b> human, mouse, rat	
<b>Cited Species:</b> human, rat, mouse	

## Background Information

HOPX (Homeodomain-only protein) gene has various synonyms including HOD, HOP, OB1, LAGY and NECC1. The protein encoded by this gene is an unusual homeodomain protein that lacks certain conserved residues required for DNA binding. HOPX has diverse effects on cardiac growth. Manipulation of Hopx function in murine models is associated with cardiac hypertrophy, dilation and fibrosis. HOPX protein acts as an antagonist to the serum response factor (SRF), which regulates the opposing processes of cell proliferation and differentiation. Overexpression of HOPX causes cardiac hypertrophy. HOPX protein can inhibit SRF-dependent transcriptional activation by recruiting histone deacetylase (HDAC) activity.

## Notable Publications

Author	Pubmed ID	Journal	Application
Alessia Caramello	36067402	Dev Neurobiol	IF
Madeline G Andrews	32876565	Elife	IF
Noreen Eder	32404936	Nat Commun	IHC,IF,WB

## Storage

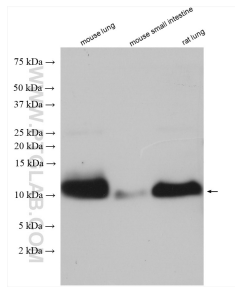
**Storage:**  
Store at -20°C. Stable for one year after shipment.  
**Storage Buffer:**  
PBS with 0.02% sodium azide and 50% glycerol pH 7.3.  
Aliquoting is unnecessary for -20°C storage

\*\*\* 20ul sizes contain 0.1% BSA

For technical support and original validation data for this product please contact:  
T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)  
E: proteintech@ptglab.com  
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## Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 11419-1-AP (HOPX antibody) at dilution of 1:1500 incubated at room temperature for 1.5 hours.