For Research Use Only

HOPX Polyclonal antibody

Catalog Number:11419-1-AP Featured Product 42 Publications

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Basic Information

Catalog Number:
11419-1-AP

Concentration:
1000 μg/ml

Source:
Rabbit

Isotype:
IgG

Immunogen Catalog Number:
AG1979

GenBank Accession Number:
BC014225

GeneID (NCBI):
84525

UNIPROT ID:
Q9BPY8

Full Name:
HOP homeobox

Calculated MW:
73 aa, 8 kDa

Observed MW:
8-12 kDa

Purification Method:
Antigen affinity purification

Recommended Dilutions:
WB 1:500-1:3000
IHC 1:500-1:2000

Applications

Tested Applications:
WB, IHC, ELISA

Cited Applications:
WB, IHC, IF

Species Specificity:
human, mouse, rat

Cited Species:
human, mouse, rat

Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0

Positive Controls:

WB : mouse lung tissue, mouse small intestine tissue, rat lung tissue

IHC : human placenta tissue, mouse lung tissue

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

For technical support and original validation data for this product please contact:
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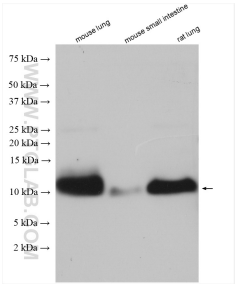
This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

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.