

For Research Use Only

# P4HA2 Polyclonal antibody

Catalog Number: 13759-1-AP

Featured Product

21 Publications



## Basic Information

### Catalog Number:

13759-1-AP

### Size:

150ul, Concentration: 550 ug/ml by Nanodrop and 367 ug/ml by Bradford method using BSA as the standard;

### Source:

Rabbit

### Isotype:

IgG

### Immunogen Catalog Number:

AG4714

### GenBank Accession Number:

BC035813

### GeneID (NCBI):

8974

### UNIPROT ID:

O15460

### Full Name:

prolyl 4-hydroxylase, alpha polypeptide II

### Calculated MW:

533 aa, 61 kDa

### Observed MW:

61 kDa

### Purification Method:

Antigen affinity purification

### Recommended Dilutions:

WB 1:1000-1:4000

IP 0.5-4.0 ug for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:400

## Applications

### Tested Applications:

WB, IP, IHC, ELISA

### Cited Applications:

WB, IHC, IF

### Species Specificity:

human

### Cited Species:

human, 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 : HeLa cells, HepG2 cells, MCF-7 cells

IP : HeLa cells,

IHC : human cervical cancer tissue, human pancreas cancer tissue

## Background Information

Prolyl 4-hydroxylase catalyzes the posttranslational formation of 4-hydroxyproline in collagens. The vertebrate enzyme is a tetramer of 2 alpha subunits and 2 beta subunits. P4HA2 is one of at least 2 alpha subunit isoforms. It catalyzes the post-translational formation of 4-hydroxyproline in -Xaa-Pro-Gly- sequences in collagens and other proteins. This protein has 2 isoforms produced by alternative splicing.

## Notable Publications

Author	Pubmed ID	Journal	Application
Jie You	36206672	Stem Cell Res	WB
Randy T Cowling	28923350	J Mol Cell Cardiol	WB
M Gabasa	28898237	Br J Cancer	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

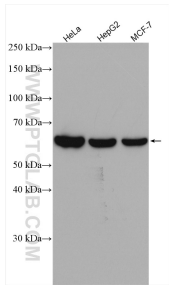
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

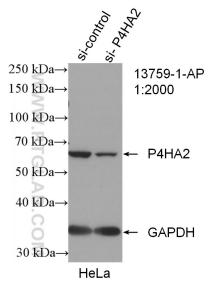
E: [proteintech@ptglab.com](mailto:proteintech@ptglab.com)  
W: [ptglab.com](http://ptglab.com)

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

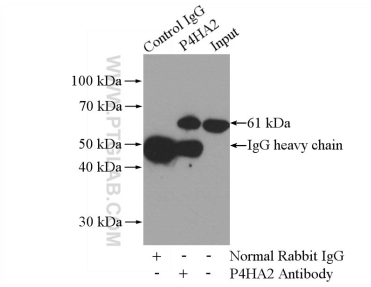
Selected Validation Data



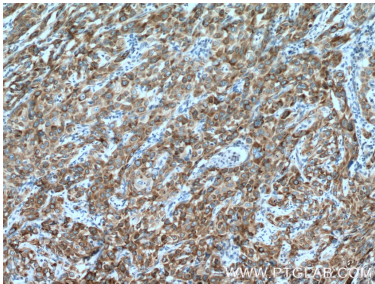
Various lysates were subjected to SDS PAGE followed by western blot with 13759-1-AP (P4HA2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



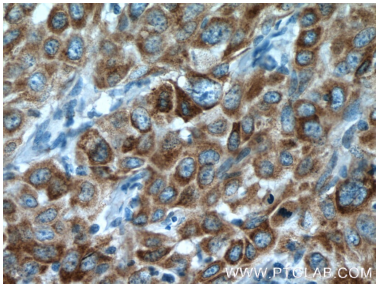
WB result of P4HA2 antibody (13759-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-P4HA2 transfected HeLa cells.



IP result of anti-P4HA2 (IP:13759-1-AP, 4ug; Detection:13759-1-AP 1:1000) with HeLa cells lysate 1200ug.



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 13759-1-AP (P4HA2 antibody) at dilution of 1:200 (under 10x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunohistochemical analysis of paraffin-embedded human cervical cancer tissue slide using 13759-1-AP (P4HA2 antibody) at dilution of 1:200 (under 40x lens. Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).