

For Research Use Only

# P4HA2 Polyclonal antibody

Catalog Number: 13759-1-AP

Featured Product

18 Publications



## Basic Information

**Catalog Number:**

13759-1-AP

**Size:**

550 µg/ml

**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 µg for 1.0-3.0 mg of total protein lysate

IHC 1:100-1:400

## Applications

**Tested Applications:**

IHC, IP, WB, ELISA

**Cited Applications:**

WB, IF, IHC

**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

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

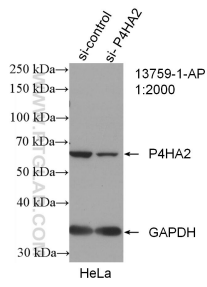
T: 4006900926

E: Proteintech-CN@ptglab.com

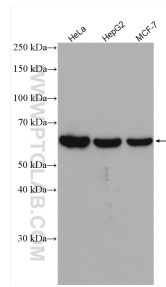
W: ptgcn.com

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

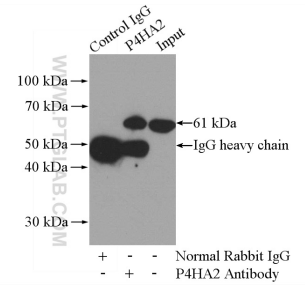
## Selected Validation Data



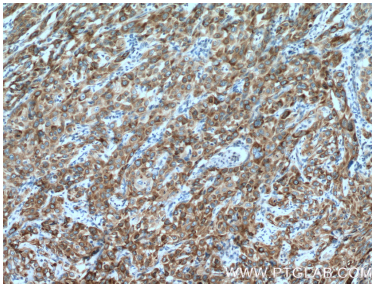
WB result of P4HA2 antibody (13759-1-AP; 1:2000; incubated at room temperature for 1.5 hours) with sh-Control and sh-P4HA2 transfected HeLa cells.



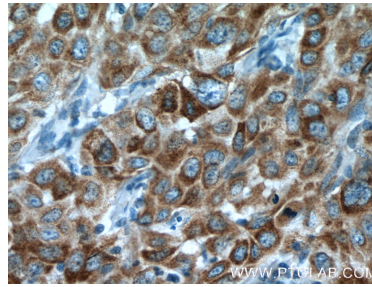
Various lysates were subjected to SDS PAGE followed by western blot with 13759-1-AP (P4HA2 antibody) at dilution of 1:2000 incubated at room temperature for 1.5 hours.



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).