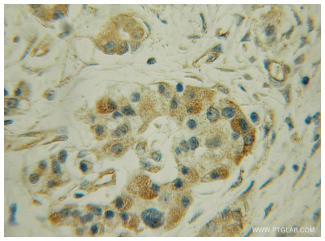
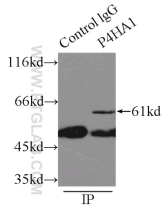
USA: proteintech@ptglab.com
Europe: europe@ptglab.com
China: service@ptglab.com

P4HA1 Polyclonal Antibody

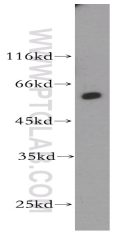
Catalog number: 12658-1-AP
Size: 44 µg/150 µl
Source: Rabbit
Isotype: IgG
Synonyms:
P4HA1; 4 PH alpha 1, P4HA, P4HA1



Immunohistochemical of paraffin-embedded human pancreas cancer using 12658-1-AP(P4HA1 antibody) at dilution of 1:100 (under 10x lens)



IP Result of anti-P4HA1 (IP:12658-1-AP, 3ug; Detection:12658-1-AP 1:600) with A431 cells lysate 3300ug.



A431 cells were subjected to SDS PAGE followed by western blot with 12658-1-AP(P4HA1 antibody) at dilution of 1:600

Background

P4HA1(Prolyl 4-hydroxylase subunit alpha-1) is also named as P4HA and belongs to the P4HA family ,which play a central role in collagen synthesis. P4HA1 catalyzes the post-translational formation of 4-hydroxyproline in -Xaa-Pro-Gly- sequences in collagens and other proteins. The gene encodes a polypeptide of 517 amino acid residues and a signal peptide of 17 amino acids and the full length protein has two glycosylation sites(uniprot). It can exsit as a heteromer, dimer or tetramer(GENATLAS). P4HA1 has 3 isoforms produced by alternative splicing with the molecular weight of 61-63 kDa and 57-59 kDa.

Applications

Tested applications:	**ELISA, WB, IHC, IP**
Cited applications:	**IHC, TMA, WB**
Species specificity:	**Human,Mouse,Rat; other species not tested.**
Cited species:	**Human**
Caculated P4HA1 MW:	**534aa,61 kDa**
Observed P4HA1 MW:	**61 kDa**
Positive WB detected in	**A431 cells, HT-1080 cells, human heart tissue, rat skin tissue**
Positive IP detected in	**A431 cells**
Positive IHC detected in	**Human pancreas cancer tissue, human breast cancer tissue**
Recommended dilution:	**WB: 1:200-1:2000** **IP: 1:200-1:2000** **IHC: 1:20-1:200**

Application key: WB = Western blotting, IHC = Immunohistochemistry, IF = Immunofluorescence, IP = Immunoprecipitation

Immunogen information

Immunogen:	**Ag3292**
GenBank accession number:	**BC034998**
Gene ID (NCBI):	**5033**
Full name:	**Prolyl 4-hydroxylase, alpha polypeptide I**

Product information

Purification method:	**Antigen affinity purification**
Storage:	**PBS with 0.1% sodium azide and 50% glycerol pH 7.3. Store at -20°C.**