



# PCP Polyclonal Antibody

<b>Catalog No</b>	YP-Ab-10843
<b>Isotype</b>	IgG
<b>Reactivity</b>	Human;Rat;Mouse;
<b>Applications</b>	IHC;IF;WB
<b>Gene Name</b>	PRCP PCP
<b>Protein Name</b>	PCP
<b>Immunogen</b>	Synthesized peptide derived from human PCP
<b>Specificity</b>	This antibody detects endogenous levels of human PCP
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Source</b>	Polyclonal, Rabbit,IgG
<b>Purification</b>	The antibody was affinity-purified from rabbit serum by affinity-chromatography using specific immunogen.
<b>Dilution</b>	IHC-p 1:50-200, WB 1:500-2000. IF 1:50-200
<b>Concentration</b>	1 mg/ml
<b>Purity</b>	≥90%
<b>Storage Stability</b>	-20°C/1 year
<b>Synonyms</b>	Lysosomal Pro-X carboxypeptidase (EC 3.4.16.2;Angiotensinase C;Lysosomal carboxypeptidase C;Proline carboxypeptidase;Prolylcarboxypeptidase;PRCP)
<b>Observed Band</b>	100kD
<b>Cell Pathway</b>	Lysosome.
<b>Tissue Specificity</b>	Highest levels in placenta, lung and liver. Also present in heart, brain, pancreas and kidney.
<b>Function</b>	<p>catalytic activity: Cleavage of a -Pro- -Xaa bond to release a C-terminal amino acid.,function: Cleaves C-terminal amino acids linked to proline in peptides such as angiotensin II, III and des-Arg9-bradykinin. This cleavage occurs at acidic pH, but enzymatic activity is retained with some substrates at neutral pH.,similarity: Belongs to the peptidase S28 family.,subunit: Homodimer.,tissue specificity: Highest levels in placenta, lung and liver. Also present in heart, brain, pancreas and kidney.,</p>
<b>Background</b>	<p>This gene encodes a member of the peptidase S28 family of serine exopeptidases. The encoded preproprotein is proteolytically processed to generate the mature lysosomal prolylcarboxypeptidase. This enzyme cleaves C-terminal amino acids linked to proline in peptides such as angiotensin II, III and des-Arg9-bradykinin. The cleavage occurs at acidic pH, but the enzyme activity is retained with some substrates at neutral pH. This enzyme has been shown to be an activator of the cell matrix-associated prekallikrein. The</p>



importance of angiotension II, one of the substrates of this enzyme, in regulating blood pressure and electrolyte balance suggests that this gene may be related to essential hypertension. A pseudogene of this gene has been identified on chromosome 2. Alternative splicing results in multiple transcript variants, at least one of which encodes an isoform that is proteolytically processed. [pr

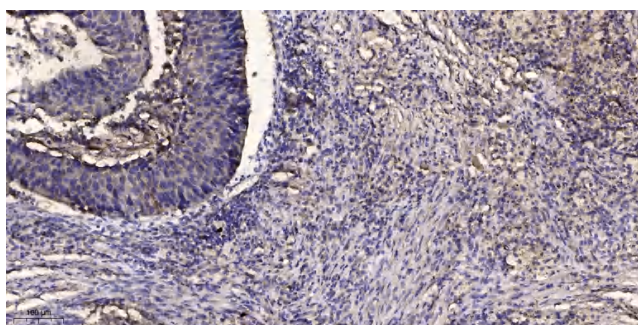
**matters needing attention**

Avoid repeated freezing and thawing!

**Usage suggestions**

This product can be used in immunological reaction related experiments. For more information, please consult technical personnel.

## Products Images



Immunohistochemical analysis of paraffin-embedded human Squamous cell carcinoma of lung. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).