



PCP Polyclonal Antibody

Catalog No	YP-Ab-06850
Isotype	IgG
Reactivity	Human;Mouse
Applications	WB;ELISA
Gene Name	PRCP PCP
Immunogen	Synthesized peptide derived from part region of human protein
Specificity	PCP Polyclonal Antibody detects endogenous levels of protein.
Formulation	Liquid in PBS containing 50% glycerol, and 0.02% sodium azide.
Source	Polyclonal, Rabbit,IgG
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Dilution	WB 1:500-2000 ELISA 1:5000-20000
Concentration	1 mg/ml
Purity	≥90%
Storage Stability	-20°C/1 year
Synonyms	Angiotensinase C;HUMPCP;Lysosomal carboxypeptidase C;PCP;PRCP;Proline carboxypeptidase;Prolylcarboxypeptidase;PRCP PCP;Lysosomal Pro-X carboxypeptidase (EC 3.4.16.2) (Angiotensinase C) (Lysosomal carboxypeptidase C) (Proline carboxypeptidase) (Prolylcarboxypeptidase) (PRCP)
Observed Band	56 kDa
Calculated Molecular Weight	496 aa, 56 kDa
Cell Pathway	Lysosome.
Tissue Specificity	Highest levels in placenta, lung and liver. Also present in heart, brain, pancreas and kidney.
Function	catalytic activity: Cleavage of a -Pro-I-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.,

Background

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 angiotension 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 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