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PRCP Antibody (N-term) Blocking peptide

Synthetic peptide
Catalog # BP13385a

Specification

PRCP Antibody (N-term) Blocking peptide - Product Information

Primary Accession P42785

PRCP Antibody (N-term) Blocking peptide - Additional Information

Gene ID 5547

Other Names
Lysosomal Pro-X carboxypeptidase, Angiotensinase C, Lysosomal carboxypeptidase C, Proline carboxypeptidase, Prolylcarboxypeptidase, PRCP, PRCP, PCP

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP13385a was selected from the N-term region of PRCP. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PRCP Antibody (N-term) Blocking peptide - Protein Information

Name PRCP

Synonyms PCP

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.

Cellular Location
Lysosome.

Tissue Location
Highest levels in placenta, lung and liver. Also present in heart, brain, pancreas and kidney

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PRCP Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PRCP Antibody (N-term) Blocking peptide - Images

PRCP Antibody (N-term) Blocking peptide - Background

The protein encoded by this gene is a lysosomalprolylcarboxypeptidase, which cleaves C-terminal amino acids linkedto proline in peptides such as angiotension II, III anddes-Arg9-bradykinin. The cleavage occurs at acidic pH, but theenzyme activity is retained with some substrates at neutral pH.This enzyme has been shown to be an activator of the cellmatrix-associated prekallikrein. The importance of angiotension II,one of the substrates of this enzyme, in regulating blood pressureand electrolyte balance suggests that this gene may be related toessential hypertension. Alternatively spliced transcript variantsencoding distinct isoforms have been observed. [provided byRefSeq].

PRCP Antibody (N-term) Blocking peptide - References

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010)Zhao, X., et al. Proteomics 10(15):2882-2886(2010)Abeywickrema, P.D., et al. Acta Crystallogr. Sect. F Struct. Biol. Cryst. Commun. 66 (PT 6), 702-705 (2010) :Soisson, S.M., et al. BMC Struct. Biol. 10, 16 (2010) :Zhang, Y., et al. Chin. Med. J. 122(20):2461-2465(2009)