

**RENBP Antibody (C-term) Blocking peptide**  
**Synthetic peptide**  
**Catalog # BP12498b****Specification**

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**RENBP Antibody (C-term) Blocking peptide - Product Information**Primary Accession [P51606](#)**RENBP Antibody (C-term) Blocking peptide - Additional Information****Gene ID** 5973**Other Names**

N-acetylglucosamine 2-epimerase, AGE, GlcNAc 2-epimerase, N-acetyl-D-glucosamine 2-epimerase, Renin-binding protein, RnBP, RENBP

**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.

**RENBP Antibody (C-term) Blocking peptide - Protein Information****Name** RENBP**Function**

Catalyzes the interconversion of N-acetylglucosamine to N-acetylmannosamine (PubMed:<a href="http://www.uniprot.org/citations/9990133" target="\_blank">9990133</a>, PubMed:<a href="http://www.uniprot.org/citations/10502668" target="\_blank">10502668</a>, PubMed:<a href="http://www.uniprot.org/citations/12499362" target="\_blank">12499362</a>). Involved in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway: although human is not able to catalyze formation of Neu5Gc due to the inactive CMAHP enzyme, Neu5Gc is present in food and must be degraded (PubMed:<a href="http://www.uniprot.org/citations/9990133" target="\_blank">9990133</a>).

**RENBP Antibody (C-term) Blocking peptide - Protocols**

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

- [Blocking Peptides](#)

**RENBP Antibody (C-term) Blocking peptide - Images**

**RENBP Antibody (C-term) Blocking peptide - Background**

The gene product inhibits renin activity by forming adimer with renin, a complex known as high molecular weight renin. The encoded protein contains a leucine zipper domain, which is essential for its dimerization with renin. The gene product can catalyze the interconversion of N-acetylglucosamine to N-acetylmannosamine, indicating that it is a GlcNAc 2-epimerase. Transcript variants utilizing alternative promoters have been described in the literature.

**RENBP Antibody (C-term) Blocking peptide - References**

Bailey, S.D., et al. Diabetes Care 33(10):2250-2253(2010) Gu, D., et al. J. Hypertens. 28(6):1210-1220(2010) Talmud, P.J., et al. Am. J. Hum. Genet. 85(5):628-642(2009) Luchansky, S.J., et al. J. Biol. Chem. 278(10):8035-8042(2003) Bohlmeier, T., et al. J. Card. Fail. 9(1):59-68(2003)