

**RENBP Polyclonal Antibody**  
**Purified Rabbit Polyclonal Antibody (Pab)**  
**Catalog # AP59020**

### Specification

#### RENBP Polyclonal Antibody - Product Information

Application	IHC-P, IHC-F, IF, E
Primary Accession	<a href="#">P51606</a>
Reactivity	Rat, Bovine
Host	Rabbit
Clonality	Polyclonal
Calculated MW	49 KDa
Physical State	Liquid
Immunogen	KLH conjugated synthetic peptide derived from human RENBP
Epitope Specificity	101-200/427
Isotype	IgG
<b>Purity</b>	affinity purified by Protein A
Buffer	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol.
SIMILARITY	Belongs to the N-acylglucosamine 2-epimerase family.
SUBUNIT	Homodimer.
Important Note	<b>This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.</b>

#### Background Descriptions

RENBP is a 427 amino acid protein that is a proteinaceous renin inhibitor. In inhibiting renin, RENBP forms a complex with it; a high molecular weight renin. RENBP contains a leucine zipper domain, which is essential for its dimerization with renin. RENBP can catalyze the interconversion of N-acetylglucosamine to N-acetylmannosamine, indicating that it is a GlcNAc 2-epimerase. Sequences of porcine, human and rat renin-binding proteins are highly homologous. The RENBP gene is conserved in dog, mouse, rat and zebrafish, and maps to human chromosome Xq28 between DXS52 and G6PD. Rat Renbp is located on chromosome X at Xq37 close to marker DXWox3 and falls outside the BP QTL regions on chromosome X.

#### RENBP Polyclonal Antibody - Additional Information

##### Gene ID 5973

##### Other Names

N-acylglucosamine 2-epimerase, AGE, 5.1.3.8, GlcNAc 2-epimerase, N-acetyl-D-glucosamine 2-epimerase, Renin-binding protein, RnBP, RENBP

##### Dilution

<span class = "dilution\_IHC-P">IHC-P~~N/A</span><br /><span class = "dilution\_IHC-F">IHC-F~~N/A</span><br /><span class =

= "dilution\_IF" > IF~~1:50~200</span><br /><span class ="dilution\_E">E~~N/A</span>

### Storage

Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

## RENBP Polyclonal Antibody - Protein Information

Name RENBP

### Function

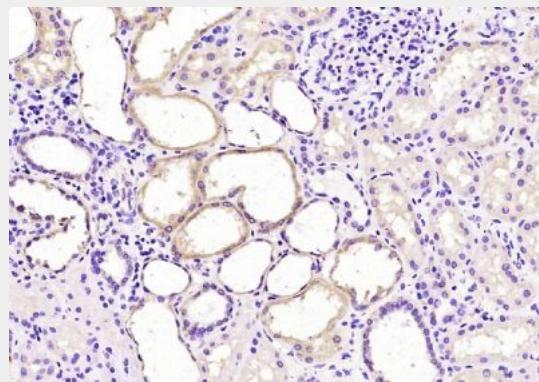
Catalyzes the interconversion of N-acetylglucosamine to N- acetylmannosamine (PubMed:<a href="http://www.uniprot.org/citations/10502668" target="\_blank">10502668</a>, PubMed:<a href="http://www.uniprot.org/citations/12499362" target="\_blank">12499362</a>, PubMed:<a href="http://www.uniprot.org/citations/9990133" target="\_blank">9990133</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 Polyclonal Antibody - Protocols

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

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

## RENBP Polyclonal Antibody - Images



Paraformaldehyde-fixed, paraffin embedded (Human kidney tissue); Antigen retrieval by boiling in sodium citrate buffer (pH6.0) for 15min; Block endogenous peroxidase by 3% hydrogen peroxide for 20 minutes; Blocking buffer (normal goat serum) at 37°C for 30min; Antibody incubation with (RENBP) Polyclonal Antibody, Unconjugated (bs-8497R) at 1:400 overnight at 4°C,

followed by operating according to SP Kit(Rabbit) (sp-0023) instructions and DAB staining.