

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
Reactivity
Rat, Bovine
Host
Clonality
Calculated MW
Physical State
P51606
Rat, Bovine
Rabbit
Polyclonal
49 KDa
Liquid

Immunogen KLH conjugated synthetic peptide derived

laG

from human RENBP

Epitope Specificity 101-200/427

Isotype Purity

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

This product as supplied is intended for research use only, not for use in human,

therapeutic or diagnostic applications.

Background Descriptions

affinity purified by Protein A

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

IHC-P \sim N/A<br\>IHC-F \sim N/A<br\><span class</pre>



="dilution IF">IF \sim 1:50 \sim 200
span class ="dilution E">E \sim N/A

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

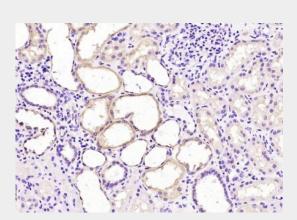
Catalyzes the interconversion of N-acetylglucosamine to N- acetylmannosamine (PubMed:10502668, PubMed:12499362, PubMed:9990133). Involved in the N-glycolylneuraminic acid (Neu5Gc) degradation pathway: although human is not able to catalyze formation of Neu5Gc due to the inactive CMAHP enzyme, Neu5Gc is present in food and must be degraded (PubMed:9990133).

RENBP Polyclonal Antibody - Protocols

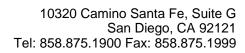
Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides
- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- 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.