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## Renin Polyclonal antibody

Catalog Number:14291-1-AP 23 Publications

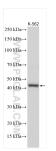


| Basic Information      | Catalog Number:<br>14291-1-AP   | GenBank Accession Number:<br>BC047752   | Purification Method:<br>Antigen affinity purification   |  |
|------------------------|---|---|---|--|
|                        | Size:   | GenelD (NCBI):  | Recommended Dilutions:  |  |
|                        | 300 µg/ml   | 5972  | WB 1:500-1:2000   |  |
|                        | Source:   | UNIPROT ID:   | IHC 1:400-1:1600<br>IF/ICC 1:20-1:200   |  |
|                        | Rabbit  | P00797  | II/ICC 1201200  |  |
|                        | Isotype:<br>IgG   | Full Name:<br>renin   |   |  |
|                        | Immunogen Catalog Number:   | Calculated MW:  |   |  |
|                        | AG5612  | 45 kDa  |   |  |
|                        |   | Observed MW:<br>45 kDa  |   |  |
| Applications           | Tested Applications:  | Positiv   | Positive Controls:  |  |
|                        |   |   | 562 cells, HepG2 cells  |  |
|                        | Cited Applications:<br>WB, IHC, IF  |   | human kidney tissue, human gliomas tissue,<br>e kidney tissue   |  |
|                        | Species Specificity:<br>human, mouse, rat   | IF/ICC  | : HepG2 cells,  |  |
|                        | Cited Species:<br>human, mouse, rat   |   |   |  |
|                        | Note-IHC: suggested antige<br>TE buffer pH 9.0; (*) Altern  |   |   |  |
|                        | retrieval may be performed<br>buffer pH 6.0   |   |   |  |
| Background Information | retrieval may be performed<br>buffer pH 6.0<br>REN(Renin) is also named as ang<br>endopeptidase, whose only know<br>initiating a cascade of reactions to<br>kidney. Human prorenin and reni<br>cells and afferent arteriole as cyt<br>alternative splicing with the mol<br>the cleavage of signal peptide ar  | d with citrate<br>iotensinogenase and belongs to the<br>vn function is to generate angiotens<br>that produce an elevation of blood p<br>n are synthesized in juxtaglomerul<br>coplasmic granules (PMID:19664745<br>eccular weight of 45-47kDa. The ma<br>nd propeptide, and also detected as<br>15226276).Defects in REN are a caus   | e peptidase A1 family. It is a highly specific<br>in I from angiotensinogen in the plasma,<br>pressure and increased sodium retention by th<br>ar cells and it locates in the juxtaglomerular<br>5, 9453303). REN has 2 isoforms produced by<br>ture REN can be detected as 38-42 kDa due to<br>55-60 kDa with variable degrees of<br>se of renal tubular dysgenesis (RTD) and fami |  |
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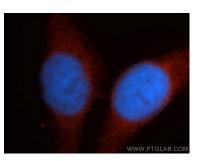
For technical support and original validation data for this product please contact:T: 4006900926E: Proteintech-CN@ptglab.comW: ptgcn.com

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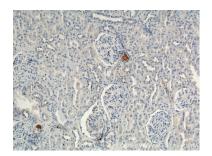
## Selected Validation Data



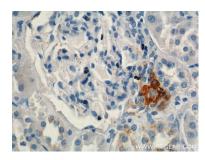
Various lysates were subjected to SDS PAGE followed by western blot with 14291-1-AP (Renin antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunofluorescent analysis of HepG2 cells, using REN antibody 14291-1-AP at 1:50 dilution and Rhodamine-labeled goat anti-rabbit IgG (red). Blue pseudocolor = DAPI (fluorescent DNA dye).



Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 14291-1-AP (Renin antibody at dilution of 1:800 (under 10x lens).



Immunohistochemical analysis of paraffinembedded human kidney tissue slide using 14291-1-AP (Renin antibody at dilution of 1:800 (under 40x lens). Various lysates were subjected to SDS PAGE followed by western blot with 14291-1-AP (Renin antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.