

Rabbit Renin/REN Polyclonal Antibody | anti-Renin/REN antibody

Anti-Renin/REN Antibody Picoband

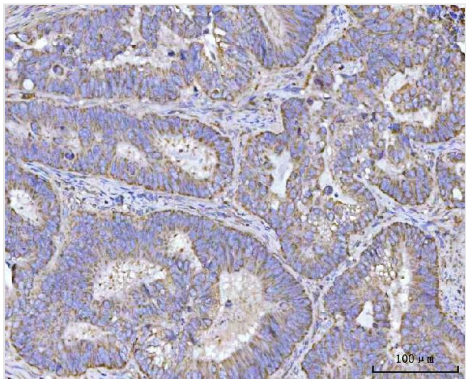
CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127194	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

PRODUCT SYNONYMS

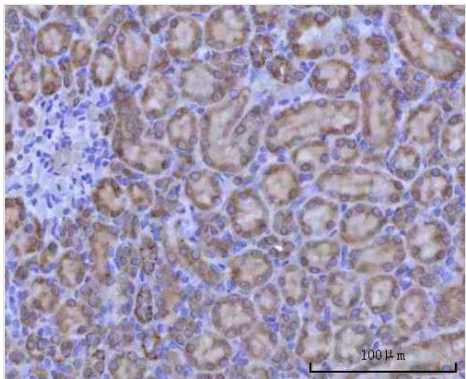
Renin/REN; Polyclonal Antibody; Anti-Renin/REN Antibody Picoband; Breast cancer metastasis-suppressor 1; selectin P ligand; p-selectin glycoprotein ligand; Selp; Psg1; anti-Renin/REN antibody

PRODUCT SPECIFICATIONS

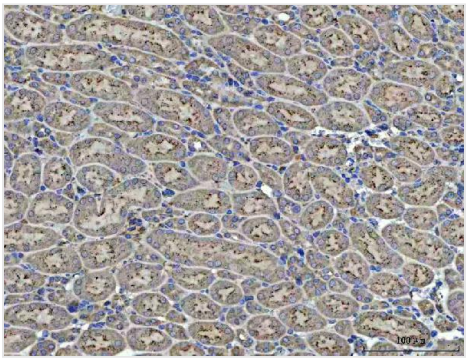
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Specificity	HighlyExpressed in blood, bone marrow, brain, adipose tissue, spleen, and thymus. AlsoExpressed in heart, kidney, liver, muscle, ovary, and stomach.
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-Renin/REN antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human Renin/REN recombinant protein (Position: N80-D370).
Subcellular Localization	Integral component of membrane
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins.
Protein Function	A SLe (x)-type proteoglycan, which through high affinity, calcium-dependent interactions with E- and P-selectins, mediates rapid rolling of leukocytes over vascular surfaces during the initial steps in inflammation. Critical for the initial leukocyte capture.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.



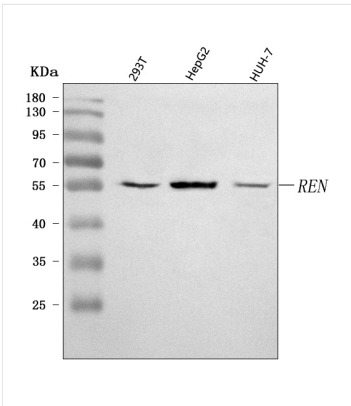
IHC (Immunohistochemistry)
Figure 4. IHC analysis of Renin/REN using anti-Renin/REN antibody (AAA127194).Renin/REN was detected in a paraffin-embedded section of human colorectal adenocarcinoma tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was then incubated with 2ug/ml rabbit anti-Renin/REN Antibody (AAA127194) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 2. IHC analysis of Renin/REN using anti-Renin/REN antibody (AAA127194).Renin/REN was detected in a paraffin-embedded section of rat kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was then incubated with 2ug/ml rabbit anti-Renin/REN Antibody (AAA127194) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)
Figure 3. IHC analysis of Renin/REN using anti-Renin/REN antibody (AAA127194).Renin/REN was detected in a paraffin-embedded section of mouse kidney tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-Renin/REN Antibody (AAA127194) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)
Figure 1. Western blot analysis of Renin/REN using anti-Renin/REN antibody (AAA127194).Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions.Lane 1: human 293T whole cell lysates,Lane 2: human HepG2 whole cell lysates,Lane 3: human HUH-7 whole cell lysates.After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-Renin/REN antigen affinity purified polyclonal antibody (#AAA127194) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1%Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for Renin/REN at approximately 55 kDa. The expected band size for Renin/REN is at 45 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-Renin/REN antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-Renin/REN antibody	Primary Antibodies; Cardiovascular; Cell Biology; Platelets; Protease Inhibitors; Proteolysis/Ubiquitin; Proteolytic Enzymes

References	1. Abel, K. J., Gross, K. W. Close physical linkage of the murine Ren-1 and Ren-2 loci. Nucleic Acids Res. 16: 2111-2126, 1988. 2. Caron, K. M. I., James, L. R., Kim, H.-S., Knowles, J., Uhler, R., Mao, L., Hagaman, J. R., Cascio, W., Rockman, H., Smithies, O. Cardiac hypertrophy and sudden death in mice with a genetically clamped renin transgene. Proc. Nat. Acad. Sci. 101: 3106-3111, 2004.3. Chirgwin, J. M., Schaefer, I. M., Diaz, J. A., Lalley, P. A. Mouse kidney renin gene is on chromosome one. Somat. Cell Molec. Genet. 10: 633-637, 1984.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4506475
NCBI GeneID	5972
NCBI Accession #	NP_000528.1
NCBI GenBank Nucleotide #	NM_000537.3
UniProt Accession #	P00797; Q6FI38; Q6T5C2
Molecular Weight	45,057 Da
NCBI Official Full Name	renin preproprotein
NCBI Official Synonym Full Names	renin
NCBI Official Symbol	REN
NCBI Official Synonym Symbols	HNFJ2
NCBI Protein Information	renin; angiotensinogenase; renin precursor, renal; angiotensin-forming enzyme
UniProt Protein Name	Renin
UniProt Gene Name	REN
UniProt Entry Name	RENI_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/renin-ren-antibody-immunohistochemistry-western-blot-elisa/127194>