

Rabbit Renin receptor/ATP6AP2 Polyclonal Antibody | anti-ATP6AP2 antibody

Anti-Renin receptor/ATP6AP2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127134	Rabbit	Human, Mouse, Rat	Flow Cytometry, Functional Assay, Immunofluorescence, Immunocytochemistry, Western Blot

PRODUCT SYNONYMS

Renin receptor/ATP6AP2; Polyclonal Antibody; Anti-Renin receptor/ATP6AP2 Antibody Picoband; Renin receptor; ATPase H+ transporting accessory protein 2; ATP6AP2; ATP6IP2; CAPER; ELDF10; HT028; MSTP009; PSEC0072; ATPase H(+)-transporting lysosomal accessory protein 2; ATPase H(+)-transporting lysosomal-interacting protein 2; ER-localized type I transmembrane adaptor; Embryonic liver differentiation factor 10; N14F; Renin/prorenin receptor; Vacuolar ATP synthase membrane sector-associated protein M8-9; ATP6M8-9; V-ATPase M8.9 subunit [Cleaved into: Renin receptor N-terminal fragment; Renin receptor C-terminal fragment]; anti-ATP6AP2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	Rabbit IgG
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na2HPO4.
Applicable Applications for anti-ATP6AP2 antibody	FCM/FACS (Flow Cytometry), IF (Immunofluorescence), ICC (Immunocytochemistry), WB (Western Blot)
Immunogen	A synthetic peptide corresponding to a sequence at the C-terminus of human Renin receptor/ATP6AP2, which shares 100% and 95.8% amino acid (aa) sequence identity with mouse and rat Renin receptor/ATP6AP2, respectively.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Cross Reactivity	No cross-reactivity with other proteins
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.

IMAGES



FCM/FACS (Flow Cytometry)

Figure 3. Flow Cytometry analysis of SiHa cells using anti-Renin receptor/ATP6AP2 antibody (AAA127134). Overlay histogram showing SiHa cells stained with AAA127134 (Blue line). To facilitate intracellular staining, cells were fixed with 4% paraformaldehyde and permeabilized with permeabilization buffer. The cells were blocked with 10% normal goat serum. And then incubated with rabbit anti-Renin receptor/ATP6AP2 Antibody (AAA127134, 1ug/1x10⁶ cells) for 30 min at 20 degree C. DyLight488 conjugated goat anti-rabbit IgG was used as secondary antibody for 30 minutes at 20 degree C. Isotype control antibody (Green line) was rabbit IgG (1ug/1x10⁶) used under the same conditions. Unlabelled sample without incubation with primary antibody and secondary antibody (Red line) was used as a blank control.



IF (Immunofluorescence)

Figure 2. IF analysis of Renin receptor/ATP6AP2 using anti-Renin receptor/ATP6AP2 antibody (AAA127134). Renin receptor/ATP6AP2 was detected in an immunocytochemical section of HELA cells. Enzyme antigen retrieval was performed using IHC enzyme antigen retrieval reagent for 15 mins. The cells were blocked with 10% goat serum. And then incubated with 5ug/mL rabbit anti-Renin receptor/ATP6AP2 Antibody (AAA127134) overnight at 4 degree C. DyLight488 Conjugated Goat Anti-Rabbit IgG was used as secondary antibody at 1:500 dilution and incubated for 30 minutes at 37 degree C. The section was counterstained with DAPI. Visualize using a fluorescence microscope and filter sets appropriate for the label used.



WB (Western Blot)

Figure 1. Western blot analysis of Renin receptor/ATP6AP2 using anti-Renin receptor/ATP6AP2 antibody (AAA127134). 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 SiHa whole cell lysates, Lane 2: human HUVEC whole cell lysates, Lane 3: human U251 whole cell lysates, Lane 4: rat brain tissue lysates, Lane 5: rat heart tissue lysates, Lane 6: mouse brain tissue lysates, Lane 7: mouse heart tissue 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 receptor/ATP6AP2 antigen affinity purified polyclonal antibody (#AAA127134) 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 receptor/ATP6AP2 at approximately 49 kDa. The expected band size for Renin receptor/ATP6AP2 is at 39 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP6AP2 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-ATP6AP2 antibody	Primary Antibodies
References	1. Cruciat, C.-M., Ohkawara, B., Acebron, S. P., Karaulanov, E., Reinhard, C., Ingelfinger, D., Boutros, M., Niehrs, C. Requirement of prorenin receptor and vacuolar H(+)-ATPase-mediated acidification for Wnt signaling. Science 327: 459-463, 2010.2. Demirci, F. Y. K., White, N. J., Rigatti, B. W., Lewis, K. F., Gorin, M. B. Identification, genomic structure, and screening of the vacuolar proton-ATPase membrane sector-associated protein M8-9 gene within the COD1 critical region (Xp11.4). Molec. Vis. 7: 234-239, 2001. Note: Electronic Article.3. Dubos, A., Castells-Nobau, A., Meziane, H., Oortveld, M. A. W., Houbaert, X., Iacono, G., Martin, C., Mittelhaeuser, C., Lalanne, V., Kramer, J. M., Bhukel, A., Quentin, C., and 10 others. Conditional deletion of intellectual disability and Parkinsonism candidate gene ATP6AP2 in fly and mouse induces cognitive impairment and neurodegeneration. Hum. Molec. Genet. 24: 6736-6755, 2015.

NCBI AND UNIPROT INFORMATION

NCBI GI #	15011918
NCBI GeneID	10159
NCBI Accession #	NP_005756.2
NCBI GenBank Nucleotide #	NM_005765.2
UniProt Accession #	O75787 ; Q5QTQ7 ; Q6T7F5 ; Q8NBP3 ; Q8NG15 ; Q96FV6 ; Q96LB5 ; Q9H2P8 ; Q9UG89
Molecular Weight	39,008 Da
NCBI Official Full Name	renin receptor
NCBI Official Synonym Full Names	ATPase, H+ transporting, lysosomal accessory protein 2
NCBI Official Symbol	ATP6AP2
NCBI Official Synonym Symbols	M8-9; MRXE; XMRE; HT028; ELDF10; ATP6IP2; MSTP009; APT6M8-9; ATP6M8-9
NCBI Protein Information	renin receptor; N14F; V-ATPase M8.9 subunit; renin/prorenin receptor; ER-localized type I transmembrane adaptor; embryonic liver differentiation factor 10; ATPase H(+)-transporting lysosomal-interacting protein 2; ATPase, H+ transporting, lysosomal intera
UniProt Protein Name	Renin receptor

UniProt Gene Name	ATP6AP2
UniProt Synonym Gene Names	ATP6IP2; CAPER; ELDF10; ATP6M8-9
UniProt Entry Name	RENH_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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