For Research Use Only

Renin receptor, ATP6AP2 Polyclonal antibody

Catalog Number: 10926-1-AP

6 Publications



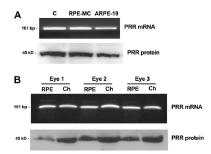
Catalog Number: GenBank Accession Number: **Purification Method: Basic Information** 10926-1-AP BC010395 Antigen affinity purification GenelD (NCBI): Recommended Dilutions: Size: 150ul , Concentration: 700 ug/ml by 10159 WB 1:500-1:2000 IHC 1:250-1:1000 Nanodrop: UNIPROT ID: IF/ICC 1:200-1:800 Source 075787 Rabbit Full Name: Isotype ATPase, H+ transporting, lysosomal lgG accessory protein 2 Immunogen Catalog Number: Calculated MW: AG1360 39 kDa **Observed MW:** 28 kDa **Applications Tested Applications:** Positive Controls: WB, IHC, IF/ICC, ELISA WB: mouse brain tissue, human retinal pigment **Cited Applications:** epithelium tissue, rat brain tissue WB, IHC IHC : mouse cerebellum tissue, human heart tissue, Species Specificity: human placenta tissue human, mouse IF/ICC : HeLa cells, **Cited Species:** human, mouse Note-IHC: suggested antigen retrieval with TE buffer pH 9.0; (*) Alternatively, antigen retrieval may be performed with citrate buffer pH 6.0 ATP6AP2, also named as ATP6IP2, CAPER, ELDF10, N14F, ATP6M8-9, Renin receptor, and prorenin receptor, is **Background Information** believed to potentiate the renin-angiotensin system (RAS), conferring to prorenin, a likely pathological role at the tissue level. The PRR has been identified in the microvascular endothelial cells of the retina, which seems to be involved in pathological neovascularization processes. The present study demonstrates for the first time that the PRR is expressed in human ATP6AP2 and suggests a molecular mechanism by which hypertension may exacerbate the pathology of dry AMD. ATP6AP2 functions as a renin and prorenin cellular receptor. It may mediate renindependent cellular responses by activating ERK1 and ERK2. By increasing the catalytic efficiency of renin in AGT/angiotensinogen conversion to angiotensin I, it may also play a role in the renin-angiotensin system (RAS). Defects in ATP6AP2 are a cause of mental retardation X-linked with epilepsy (MRXE). The full length of ATP6AP2 protein is 39 kDa, and the band with an apparent molecular weight of 28 kDa is the soluble form. (PMID: 19580809; PMID:28215051; PMID:34534267; PMID: 29127204) Notable Publications Author Pubmed ID Journal Application Kaushal Asrani 31527310 J Clin Invest WB Xiao-Mei Kong Int J Clin Exp Pathol WB 26722475 Chih Hung Lo 38830624 ACS Nano WB Storage Storage: Store at -20°C. Stable for one year after shipment. Storage Buffer PBS with 0.02% sodium azide and 50% glycerol pH 7.3. Aliquoting is unnecessary for -20°C storage *** 20ul sizes contain 0.1% BSA This product is exclusively available under Proteintech For technical support and original validation data for this product please contact: T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free E: proteintech@ptglab.com

W: ptglab.com

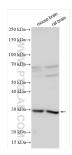
in USA), or 1(312) 455-8498 (outside USA)

Group brand and is not available to purchase from any other manufacturer.

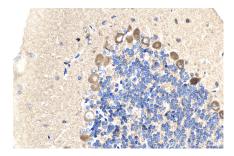
Selected Validation Data



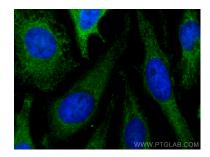
WB result from Oscar Alcazar, et al, (Pro)renin receptor is expressed in human retinal pigment epithelium and participates in extracellular matrix remodeling, Exp Eye Res. 89(5) 638-47 (2009) (PMID:19580809). Eye 45kd.



Various lysates were subjected to SDS PAGE followed by western blot with 10926-1-AP (Renin receptor, ATP6AP2 antibody) at dilution of 1:1000 incubated at room temperature for 1.5 hours.



Immunohistochemical analysis of paraffinembedded mouse cerebellum tissue slide using 10926-1-AP (Renin receptor, ATP6AP2 antibody) at dilution of 1:500 (under 40x lens). Heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0).



Immunofluorescent analysis of (4% PFA) fixed HeLa cells using Renin receptor, ATP6AP2 antibody (10926-1-AP) at dilution of 1:400 and CoraLite®488-Conjugated AffiniPure Goat Anti-Rabbit IgG(H+L) (SA00013-2).