

Nur für Forschungszwecke

Renin receptor, ATP6AP2 Polyklonaler Antikörper



Katalog-Nr.: 10926-1-AP

4 Publikationen

Allgemeine Informationen

Katalog-Nr.:

10926-1-AP

Größe:

150ul, Konzentration: 400 µg/ml von Nanodrop und 300 µg/ml durch die Bradford-Methode mit BSA als Standard;

Wirt:

Kaninchen

Isotyp:

IgG

Immunogen Katalognummer:

AG1360

GenBank-Zugangsnummer:

BC010395

GeneID (NCBI):

10159

Vollständiger Name:

ATPase, H⁺ transporting, lysosomal accessory protein 2

Berechnete Masse:

39 kDa

Beobachtete Masse:

45-47 kDa

Reinigungsmethode:

Antigen-Affinitätsreinigung

Empfohlene Verdünnungen:

WB 1:500-1:1000

IHC 1:20-1:200

Anwendungen

Geprüfte Anwendungen:

IHC, WB, ELISA

In Publikationen genannte Anwendungen:

IHC, WB

Getestete Reaktivität:

Human, Maus, Ratte

Zitierte Arten:

Human, Maus

Hinweis-IHC: Antigendemaskierung mit TE-Puffer pH 9,0 empfohlen. (*) Wahlweise kann die Antigendemaskierung auch mit Citratpuffer pH 6,0 erfolgen.

Positivkontrollen:

WB: Maus-Augengewebe, humanes Pigmentepithel-Gewebe

IHC: humanes Herzgewebe,

Hintergrundinformationen

ATP6AP2, also named as ATP6IP2, CAPER, ELDF10, N14F, ATP6M8-9, Renin receptor and prorenin receptor, is believed to potentiate the renin-angiotensin system (RAS), conferring to prorenin, a likely pathological role at tissue level. The PRR has been identified in the microvascular endothelial cells of the retina, in which it 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 renin-dependent 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). (PMID:19580809)

Bemerkenswerte Veröffentlichungen

Verfasser	Pubmed ID	Journal	Anwendung
Kaushal Asrani	31527310	J Clin Invest	WB
Xiao-Mei Kong	26722475	Int J Clin Exp Pathol	WB
Liang Chen	36879298	Cell Biosci	WB, IHC

Lagerung

Lagerungsbedingungen:

Bei -20°C lagern. Nach dem Versand ein Jahr lang stabil

Lagerungspuffer:

PBS mit 0.02% Natriumazid und 50% Glycerin pH 7.3.

Aliquotieren ist nicht notwendig bei -20°C Lagerung

*** 20ul-Größen enthalten 0.1% BSA

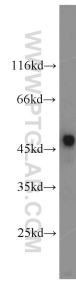
For technical support and original validation data for this product please contact:

T: 1 (888) 4PTGLAB (1-888-478-4522) (toll free in USA), or 1(312) 455-8498 (outside USA)

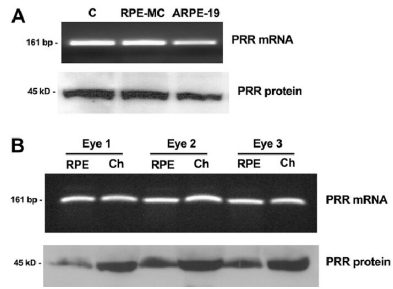
E: proteintech@ptglab.com
W: ptglab.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.

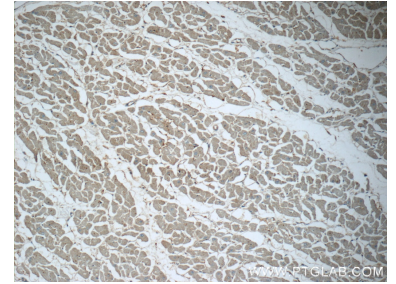
Ausgewählte Validierungsdaten



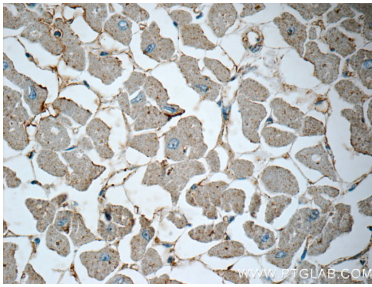
mouse eye tissue were subjected to SDS PAGE followed by western blot with 10926-1-AP (Renin receptor, ATP6AP2 antibody) at dilution of 1:600 incubated at room temperature for 1.5 hours.



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.



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10926-1-AP (Renin receptor, ATP6AP2 Antibody) at dilution of 1:50 (under 10x lens).



Immunohistochemical analysis of paraffin-embedded human heart tissue slide using 10926-1-AP (Renin receptor, ATP6AP2 Antibody) at dilution of 1:50 (under 40x lens).