

For Research Use Only

Renin receptor, ATP6AP2 Monoclonal antibody



Catalog Number: 60017-1-Ig

Basic Information

Catalog Number: 60017-1-Ig	GenBank Accession Number: BC010395	Purification Method: Protein A purification
Size: 1000 µg/ml	GeneID (NCBI): 10159	CloneNo.: 5H2E8
Source: Mouse	UNIPROT ID: O75787	
Isotype: IgG1	Full Name: ATPase, H ⁺ transporting, lysosomal accessory protein 2	
Immunogen Catalog Number: AG1360	Calculated MW: 39 kDa	

Applications

Tested Applications:
ELISA

Species Specificity:
human

Background Information

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)

Storage

Storage:
Store at -20°C. Stable for one year after shipment.

Storage Buffer:
PBS with 0.1% sodium azide and 50% glycerol pH 7.3.

Aliquoting is unnecessary for -20°C storage

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Selected Validation Data