

Datasheet for ABIN6137346
anti-ATP6V1B1 antibody (AA 1-280)

3 Images

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Overview

Quantity:	100 µL
Target:	ATP6V1B1
Binding Specificity:	AA 1-280
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP6V1B1 antibody is un-conjugated
Application:	Western Blotting (WB), Immunofluorescence (IF)

Product Details

Immunogen:	Recombinant fusion protein containing a sequence corresponding to amino acids 1-280 of human ATP6V1B1 (NP_001683.2).
Sequence:	MAMEIDSRPG GLPGSSCNLG AAREHMQAVT RNYITHPRVT YRTVCSVNGP LVLDRVKFA QYAEIVHFTL PDGTQRSGQV LEVAGTKAIV QVFEGTSGID ARKTTCEFTG DILRTPVSED MLGRVFNGSG KPIDKGPVVM AEDFLDINGQ PINPHSRIYP EEMIQTGISP IDVMNSIARG QKIPIFSAAG LPHNEIAAQI CRQAGLVKKS KAVLDYHDDN FAIVFAAMGV NMETARFFKS DFEQNGTMGN VCLFLNLAND PTIERITPR LALTTAEFLA
Isotype:	IgG
Cross-Reactivity:	Human, Mouse, Rat
Characteristics:	Polyclonal Antibodies
Purification:	Affinity purification

Target Details

Target:	ATP6V1B1
Alternative Name:	ATP6V1B1 (ATP6V1B1 Products)
Background:	<p>This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is necessary for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is composed of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain consists of three A and three B subunits, two G subunits plus the C, D, E, F, and H subunits. The V1 domain contains the ATP catalytic site. The V0 domain consists of five different subunits: a, c, c', c'', and d. Additional isoforms of many of the V1 and V0 subunit proteins are encoded by multiple genes or alternatively spliced transcript variants. This encoded protein is one of two V1 domain B subunit isoforms and is found in the kidney. Mutations in this gene cause distal renal tubular acidosis associated with sensorineural deafness.,ATP6V1B1,ATP6B1,RTA1B,VATB,VMA2,VPP3,Signal Transduction,Endocrine & Metabolism,Mitochondrial metabolism,Mitochondrial markers,ATP6V1B1</p>
Molecular Weight:	56 kDa
Gene ID:	525
UniProt:	P15313
Pathways:	Sensory Perception of Sound , Transition Metal Ion Homeostasis , Proton Transport

Application Details

Application Notes:	WB,1:500 - 1:2000,IF,1:50 - 1:200
Comment:	HIGH QUALITY
Restrictions:	For Research Use only

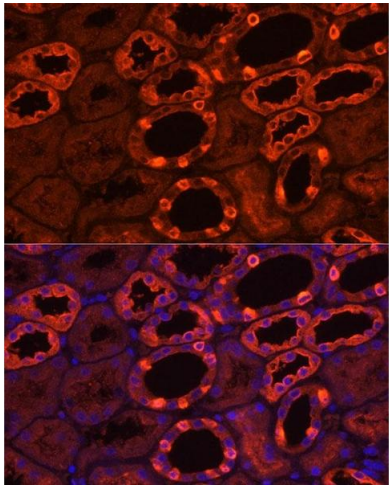
Handling

Format:	Liquid
Buffer:	PBS with 0.02 % sodium azide,50 % glycerol, pH 7.3.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Handling

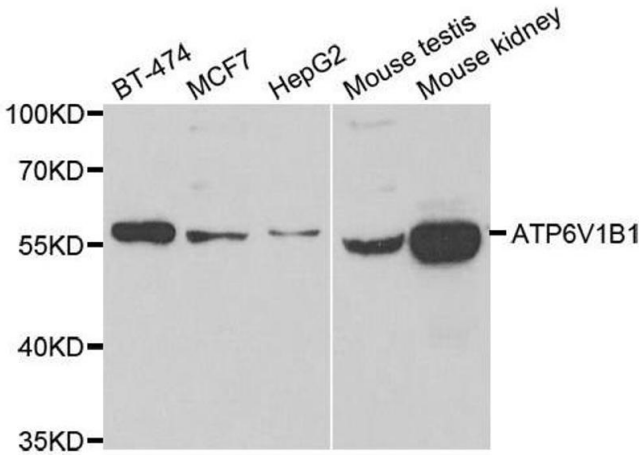
Storage:	-20 °C
Storage Comment:	Store at -20°C. Avoid freeze / thaw cycles.

Images



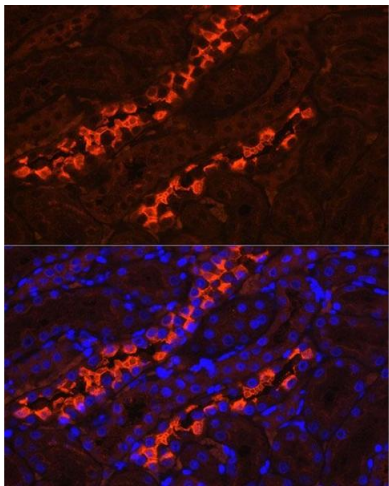
Immunofluorescence

Image 1. Immunofluorescence analysis of human kidney using V1B1 Rabbit pAb (ABIN6131094, ABIN6137346, ABIN6137347 and ABIN6222603) at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.



Western Blotting

Image 2. Western blot analysis of extracts of various cell lines, using ATP6V1B1 antibody.



Immunofluorescence

Image 3. Immunofluorescence analysis of rat kidney using V1B1 Rabbit pAb (ABIN6131094, ABIN6137346, ABIN6137347 and ABIN6222603) at dilution of 1:200 (40x lens). Blue: DAPI for nuclear staining.