Datasheet for ABIN2782670

anti-ATP6V0A1 antibody (N-Term)

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Overview

Quantity:	100 µL
Target:	ATP6V0A1
Binding Specificity:	N-Term
Reactivity:	Human, Mouse, Rat, Cow, Horse, Rabbit, Dog, Guinea Pig, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Application:	Western Blotting (WB)

Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the N terminal region of human ATP6V0A1
Sequence:	RDLNPDVNVF QRKFVNEVRR CEEMDRKLRF VEKEIRKANI PIMDTGENPE
Predicted Reactivity:	Cow: 100%, Dog: 100%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 100%, Rat: 100%, Zebrafish: 100%
Characteristics:	This is a rabbit polyclonal antibody against ATP6V0A1. It was validated on Western Blot using a cell lysate as a positive control.
Purification:	Affinity Purified

Target Details

Target:	ATP6V0A1
Alternative Name:	ATP6V0A1 (ATP6V0A1 Products)

Target Details

Background:	ATP6V0A1 is 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. ATP6V0A1 is one of three A subunit proteins and it is associated with clathrin-coated vesicles. 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. The occurrence of splice variants encoding different protein products has been reported, but the full-length natures of these transcripts have not been determined. Publication Note: This RefSeq record includes a subset of the publications that are available for this gene. Please see the Entrez Gene record to access additional publications. Alias Symbols: ATP6N1, ATP6N1A, DKFZp781J1951, Stv1, VPP1, Vph1, a1 Protein Interaction Partner: SEH1L, ZNF267, SNX4, UBC, CLIC1, MARCKSL1, MRPL44, SLC30A5, MRPL50, PTRH2, ATP6V1D, MRPL46, SCFD1, VAMP2, SRSF3, RPS18, RPS15, SLC25A3, PA2G4, NONO, ATP6V1E1, ATP6V1B1, Protein Size: 831
Molecular Weight:	96 kDa
Gene ID:	535
NCBI Accession:	NM_005177, NP_005168
UniProt:	Q93050
Pathways:	Transition Metal Ion Homeostasis, Proton Transport

Application Details

Application Notes:	Optimal working dilutions should be determined experimentally by the investigator.
Comment:	Antigen size: 831 AA
Restrictions:	For Research Use only

Handling

Format:	Liquid

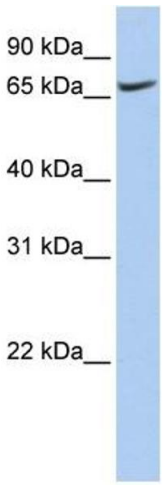
Handling

Concentration:	Lot specific
Buffer:	Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.
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 Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-20 °C
Storage Comment:	For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.

Publications

Product cited in:	Leiva-Rodríguez, Romeo-Guitart, Marmolejo-Martínez-Artesero, Herrando-Grabulosa, Bosch, Forés, Casas: "ATG5 overexpression is neuroprotective and attenuates cytoskeletal and vesicle-trafficking alterations in axotomized motoneurons." in: **Cell death & disease**, Vol. 9, Issue 6, pp. 626, (2019) (PubMed). Antonacopoulou, Grivas, Skarlas, Kalofonos, Scopa, Kalofonos: "POLR2F, ATP6V0A1 and PRNP expression in colorectal cancer: new molecules with prognostic significance?" in: **Anticancer research**, Vol. 28, Issue 2B, pp. 1221-7, (2008) (PubMed).

Images



Western Blotting

Image 1. WB Suggested Anti-ATP6V0A1 Antibody Titration: 0.2-1 ug/ml Positive Control: Hela cell lysate