Datasheet for ABIN653735

anti-ATP6V1A antibody (AA 441-468)

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Overview

Quantity:	400 µL
Target:	ATP6V1A
Binding Specificity:	AA 441-468
Reactivity:	Human
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP6V1A antibody is un-conjugated
Application:	Western Blotting (WB), Immunohistochemistry (Paraffin-embedded Sections) (IHC (p))

Product Details

Immunogen:	This ATP6V1A antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 441-468 amino acids from the Central region of human ATP6V1A.
Clone:	RB24578
Isotype:	Ig Fraction
Predicted Reactivity:	B, M, Pig
Purification:	This antibody is purified through a protein A column, followed by peptide affinity purification.

Target Details

Target:	ATP6V1A
Alternative Name:	ATP6V1A (ATP6V1A Products)

Target Details

Background:	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 A subunit isoforms and is found in all tissues.
Molecular Weight:	68304
Gene ID:	523
NCBI Accession:	NP_001681
UniProt:	P38606
Pathways:	Transition Metal Ion Homeostasis, Proton Transport, SARS-CoV-2 Protein Interactome

Application Details

Application Notes:	WB: 1:1000. IHC-P: 1:50~100
Restrictions:	For Research Use only

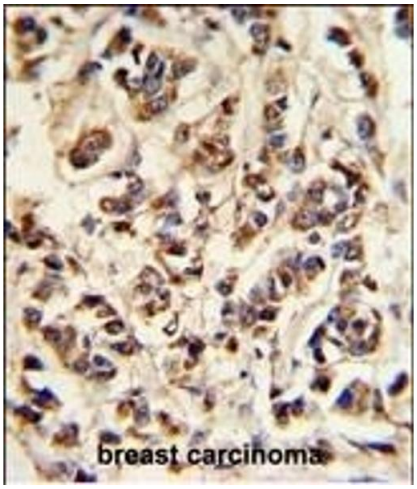
Handling

Format:	Liquid
Buffer:	Purified polyclonal antibody supplied in PBS with 0.09 % (W/V) sodium azide.
Preservative:	Sodium azide
Precaution of Use:	This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.
Storage:	4 °C,-20 °C
Storage Comment:	Maintain refrigerated at 2-8 °C for up to 6 months. For long term storage store at -20 °C in small aliquots to prevent freeze-thaw cycles.
Expiry Date:	6 months

Publications

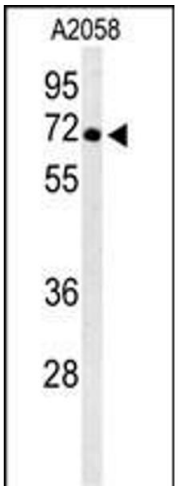
Product cited in:	Nabatov, Hatzis, Rouschop, van Diest, Vooijs: "Hypoxia inducible NOD2 interacts with 3-O-sulfogalactoceramide and regulates vesicular homeostasis." in: **Biochimica et biophysica acta**, Vol. 1830, Issue 11, pp. 5277-86, (2013) (PubMed).

Images



Immunohistochemistry (Paraffin-embedded Sections)

Image 1. ATP6V1A Antibody (Center) (ABIN653735 and ABIN2843040) IHC analysis in formalin fixed and paraffin embedded breast carcinoma followed by peroxidase conjugation of the secondary antibody and DAB staining. This data demonstrates the use of the ATP6V1A Antibody (Center) for immunohistochemistry. Clinical relevance has not been evaluated.



Western Blotting

Image 2. Western blot analysis of ATP6V1A Antibody (Center) (ABIN653735 and ABIN2843040) in cell line lysates (35 µg/lane). ATP6V1A (arrow) was detected using the purified Pab.