

AP43239PU-N

Polyclonal Antibody to ATP6V0A2 - Aff - Purified

Alternate names:

Lysosomal H(+)-transporting ATPase V0 subunit a2, TJ6, V-ATPase 116 kDa isoform a2, V-type proton ATPase 116 kDa subunit a isoform 2, Vacuolar proton translocating ATPase 116 kDa subunit a isoform 2

Quantity:

50 µg

Concentration:

0.7 mg/ml

Background:

The multisubunit vacuolar-type proton pump (H(+)-ATPase or V-ATPase) is essential for acidification of diverse cellular components, including endosomes, lysosomes, clathrin-coated vesicles, secretory vesicles, and chromaffin granules, and it is found at high density in the plasma membrane of certain specialized cells. H(+)-ATPases are comprised of a peripheral V(1) domain and an integral membrane V(0) domain; ATP6V0A2 is a component of the V(0) domain. The multisubunit vacuolar-type proton pump (H(+)-ATPase or V-ATPase) is essential for acidification of diverse cellular components, including endosomes, lysosomes, clathrin-coated vesicles, secretory vesicles, and chromaffin granules, and it is found at high density in the plasma membrane of certain specialized cells. H(+)-ATPases are comprised of a peripheral V(1) domain and an integral membrane V(0) domain; ATP6V0A2 is a component of the V(0) domain

Uniprot ID:

[Q9Y487](#)

NCBI:

[NP_036595](#)

GeneID:

[23545](#)

Host:

Rabbit

Immunogen:

Synthetic peptide directed towards the N-terminal of human ATP6V0A2.

AA Sequence:

INRADIPLEGEASPPAPPLKQVLEMQEQLQKLEVELREVTKNKEKLRKN

Format:

State: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09% (w/v) sodium azide and 2% sucrose.

Purification: Purified using peptide immunoaffinity column

Applications:

Western blotting (0.2 - 1 µg/ml)

Immunocytochemistry / Immunofluorescence staining (2-8 µg/ml)

Immunohistochemistry on paraffin embedded sections (2-8 µg/ml)

Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.

Species Reactivity:

Tested: Human

Expected from sequence similarity: Mouse, Rat, Dog, Horse, Pig

Storage:

Store undiluted at 2-8°C for one month or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

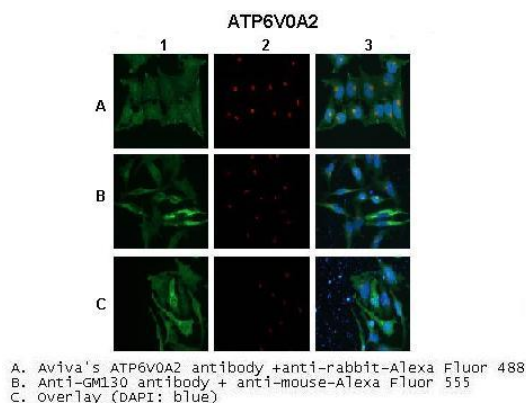
Shelf life: one year from despatch.

General Readings:

1. "Impaired glycosylation and cutis laxa caused by mutations in the vesicular H⁺-ATPase subunit ATP6V0A2." Kornak U., Reynders E., Dimopoulou A., van Reeuwijk J., Fischer B., Rajab A., Budde B., Nuernberg P., Foulquier F., Dobyns W.B., Quelhas D., Vilarinho L., Leao-Teles E., Grealley M., Seemanova E., Simandlova M., Salih M., Nanda A. expand/collapse author list Mundlos S. Nat. Genet. 40:32-34(2008)
2. Hurtado-Lorenzo A, Skinner M, El Annan J, Futai M, Sun-Wada GH, Bourgoignie S, et al. V-ATPase interacts with ARNO and Arf6 in early endosomes and regulates the protein degradative pathway. Nat Cell Biol. 2006 Feb;8(2):124-36. Epub 2006 Jan 15. PubMed PMID: 16415858.

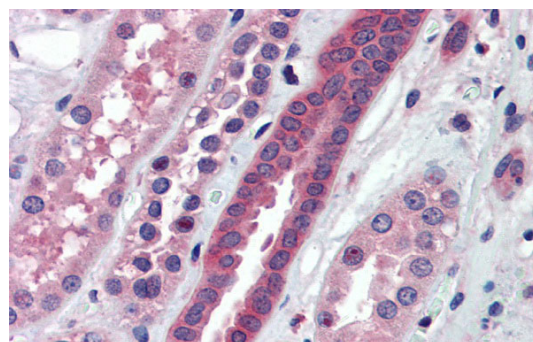
Pictures:

Human Hela; . Application: IHC/Immunofluorescence.
Species+tissue/cell type:A. untransfected HeLa cellsB. mATP6V0A2-FLAG transfected HeLa cellsC. mATP6V0A2 (partial) transfected HeLa cells. Primary antibody dilution: 1:250. Secondary antibody: Anti-rabbit AlexaFluor 488. Secondary antibody dilution: 1:1000; ATP6V0A2 antibody - N-terminal region (AP43239PU-N) in Human Hela cells using Immunohistochemistry

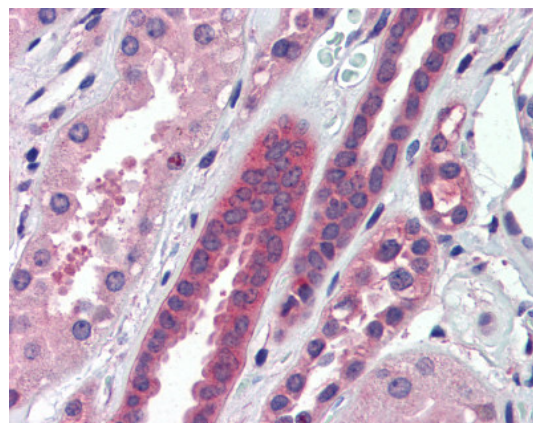


See IHC 4 Data and Customer Feedback for more information

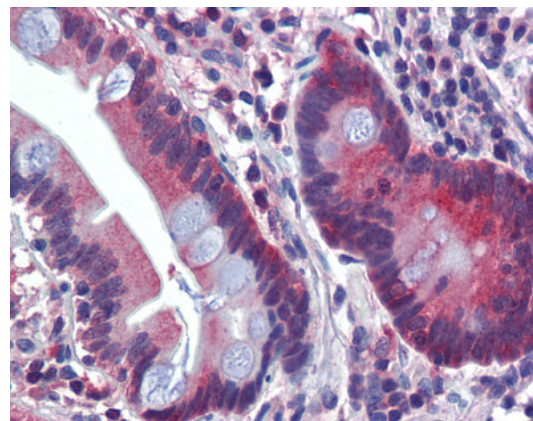
Human kidney; Immunohistochemistry with Human kidney lysate tissue at an antibody concentration of 5.0ug/ml using anti-ATP6V0A2 antibody (AP43239PU-N); ATP6V0A2 antibody - N-terminal region (AP43239PU-N) in Human kidney cells using Immunohistochemistry



human kidney; Anti-ATP6V0A2 antibody IHC staining of human kidney. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/mL.; ATP6V0A2 antibody - N-terminal region (AP43239PU-N) in human kidney cells using Immunohistochemistry



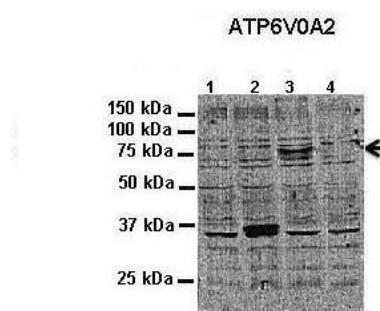
Human small intestine; Anti-ATP6V0A2 antibody IHC staining of human small intestine. Immunohistochemistry of formalin-fixed, paraffin-embedded tissue after heat-induced antigen retrieval. Antibody concentration 5 ug/ml.; ATP6V0A2 antibody - N-terminal region (AP43239PU-N) in Human small intestine cells using Immunohistochemistry



Human HeLa; ATP6V0A2 antibody - N-terminal region (AP43239PU-N) validated by WB using HeLa cells at 1:300.; ATP6V0A2 antibody - N-terminal region (AP43239PU-N) in Human HeLa cells using Western Blot



Human HeLa; . Application: Western blotting. Species+tissue/cell type: HeLa cells. How many ug's of tissue/cell lysate run on the gel: 1. 10 ug untransfected HeLa lysate 2. 10 ug mATP6V0A2 (Partial) transfected HeLa lysate 3. 10 ug mATP6V0A2-FLAG transfected HeLa lysate 4. 10 ug mATP6V0A1-FLAG transfected HeLa lysate. Primary antibody dilution: 1:300. Secondary antibody: Anti-rabbit-HRP. Secondary antibody dilution: 1:1000; ATP6V0A2 antibody - N-terminal region (AP43239PU-N) in Human HeLa cells using Western Blot



See Immunoblot 2 Data and Customer Feedback for more information