

## Rabbit anti-Human ATP6V0A4 Polyclonal Antibody | anti-ATP6V0A4 antibody

ATP6V0A4 Antibody (Center)

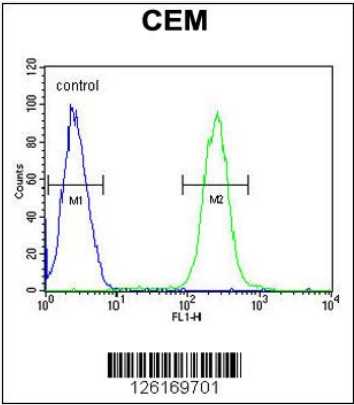
| CATALOG # | HOST   | REACTIVITY | APPLICATIONS                                          |
|-----------|--------|------------|-------------------------------------------------------|
| AAA290181 | Rabbit | Human      | Flow Cytometry, Functional Assay, ELISA, Western Blot |

### PRODUCT SYNONYMS

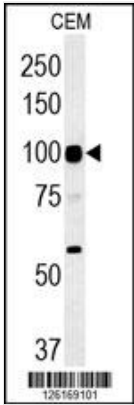
ATP6V0A4; Polyclonal Antibody; ATP6V0A4 Antibody (Center); V-type proton ATPase 116 kDa subunit a isoform 4; V-ATPase 116 kDa isoform a4; Vacuolar proton translocating ATPase 116 kDa subunit a isoform 4; Vacuolar proton translocating ATPase 116 kDa subunit a kidney isoform; ATP6N1B; ATP6N2; anti-ATP6V0A4 antibody

### PRODUCT SPECIFICATIONS

|                                                    |                                                                                                                                                                              |
|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                                               | Rabbit                                                                                                                                                                       |
| Reactivity                                         | Human                                                                                                                                                                        |
| Clonality                                          | Polyclonal                                                                                                                                                                   |
| Isotype                                            | Rabbit Ig                                                                                                                                                                    |
| Specificity                                        | This ATP6V0A4 antibody is generated from rabbits immunized with a KLH conjugated synthetic peptide between 235-261 amino acids from the Central region of human ATP6V0A4.    |
| Purity/Purification                                | Peptide Affinity Purified Rabbit Polyclonal Antibody (Pab)                                                                                                                   |
| Form/Format                                        | Purified polyclonal antibody supplied in PBS with 0.09% (W/V) sodium azide. This antibody is purified through a protein A column, followed by peptide affinity purification. |
| Concentration                                      | Vial Concentration: 0.5 (varies by lot)                                                                                                                                      |
| Sequence Positions                                 | 235-261                                                                                                                                                                      |
| Sequence Length                                    | 840                                                                                                                                                                          |
| Applicable Applications for anti-ATP6V0A4 antibody | FCM/FACS (Flow Cytometry), ELISA, WB (Western Blot)                                                                                                                          |
| Antigen Type                                       | Synthetic Peptide                                                                                                                                                            |
| Antigen Source                                     | HUMAN                                                                                                                                                                        |
| Preparation and Storage                            | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C in small aliquots to prevent freeze-thaw cycles.                       |



**FCM/FACS (Flow Cytometry)**  
ATP6V0A4 Antibody (Center) flow cytometric analysis of CEM cells (right histogram) compared to a negative control cell (left histogram).FITC-conjugated goat-anti-rabbit secondary antibodies were used for the analysis.



**WB (Western Blot)**  
ATP6V0A4 Antibody (Center) western blot analysis in CEM cell line lysates (35ug/lane).This demonstrates the ATP6V0A4 antibody detected the ATP6V0A4 protein (arrow).

ADDITIONAL INFORMATION

|                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|--------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for anti-ATP6V0A4 antibody | This gene encodes a component of vacuolar ATPase (V-ATPase), a multisubunit enzyme that mediates acidification of intracellular compartments of eukaryotic cells. V-ATPase dependent 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. This gene is one of four genes in man and mouse that encode different isoforms of the a subunit. Alternatively spliced transcript variants encoding the same protein have been described. Mutations in this gene are associated with renal tubular acidosis associated with preserved hearing. |
| Product Categories/Family for anti-ATP6V0A4 antibody   | Neuroscience; Signal Transduction                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| References                                             | Andreucci, E., et al. <i>Pediatr. Nephrol.</i> 24(11):2147-2153(2009)<br>Hinton, A., et al. <i>J. Biol. Chem.</i> 284(24):16400-16408(2009)<br>Su, Y., et al. <i>Am. J. Physiol. Renal Physiol.</i> 295 (4), F950-F958 (2008) :<br>Norgett, E.E., et al. <i>J. Biol. Chem.</i> 282(19):14421-14427(2007)<br>Smith, A.N., et al. <i>J. Am. Soc. Nephrol.</i> 16(5):1245-1256(2005)<br>Forgac, M. <i>J. Biol. Chem.</i> 274(19):12951-12954(1999)<br>Nelson, N., et al. <i>Physiol. Rev.</i> 79(2):361-385(1999)<br>Kane, P.M. <i>J. Bioenerg. Biomembr.</i> 31(1):3-5(1999)<br>Finbow, M.E., et al. <i>Biochem. J.</i> 324 (PT 3), 697-712 (1997) :<br>Stevens, T.H., et al. <i>Annu. Rev. Cell Dev. Biol.</i> 13, 779-808 (1997) :                                                                                                                                                                                                                                                       |

NCBI AND UNIPROT INFORMATION

|                           |                                       |
|---------------------------|---------------------------------------|
| NCBI GI #                 | 85386053                              |
| NCBI GeneID               | 50617                                 |
| NCBI Accession #          | NP_065683.2; NP_570855.2; NP_570856.2 |
| NCBI GenBank Nucleotide # | NM_020632.2                           |

|                                  |                                                                                                   |
|----------------------------------|---------------------------------------------------------------------------------------------------|
| UniProt Accession #              | <a href="#">Q9HBG4</a> ; <a href="#">Q32M47</a> ; <a href="#">A4D1R4</a> ; <a href="#">A8KA80</a> |
| Molecular Weight                 | 96386                                                                                             |
| NCBI Official Full Name          | V-type proton ATPase 116 kDa subunit a isoform 4                                                  |
| NCBI Official Synonym Full Names | ATPase, H+ transporting, lysosomal V0 subunit a4                                                  |
| NCBI Official Symbol             | ATP6V0A4                                                                                          |
| NCBI Official Synonym Symbols    | A4; STV1; VPH1; VPP2; RTA1C; RTADR; ATP6N2; RDRTA2; ATP6N1B                                       |
| NCBI Protein Information         | V-type proton ATPase 116 kDa subunit a isoform 4                                                  |
| UniProt Protein Name             | V-type proton ATPase 116 kDa subunit a isoform 4                                                  |
| UniProt Gene Name                | <b>ATP6V0A4</b>                                                                                   |
| UniProt Synonym Gene Names       | ATP6N1B; ATP6N2; V-ATPase 116 kDa isoform a4                                                      |
| UniProt Entry Name               | VPP4_HUMAN                                                                                        |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | [contact@aaabiotech.com](mailto:contact@aaabiotech.com)

Online datasheet: <https://stage.aaabiotech.com/polyclonal/atp6v0a4-antibody-flow-cytometry-western-blot-elisa/290181>