BT LAB
Bioassay Technology Laboratory
*Optimize Your Research*

# ATP6V0A4 Monoclonal Antibody

## Description

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|---|---|
| **Product type** | Antibody |
| **Code** | BT-MCA2741 |
| **Host** | Mouse |
| **Isotype** | Mouse IgG1 |
| **Size** | 100μL, 50μL |
| **Immunogen** | Purified recombinant fragment of human ATP6V0A4 (AA: 228-390) expressed in E. Coli. |
| **Mol wt** | 96.3kDa |
| **Species reactivity** | Human |
| **Clonality** | Monoclonal |
| **Recommended application** | FCM |
| **Concentration** | N/A |
| **Full name** | N/A |
| **Synonyms** | A4;STV1;VPH1;VPP2;DRTA3;RTA1C;RTADR;ATP6N2;RDRTA2;ATP6N1B |

**This product is for research use only, not for use in human, therapeutic or diagnostic procedure.**

## Background

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.

## Recommended Dilution

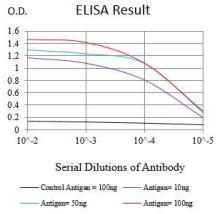
WB: 1:500 - 1:2000

FCM: 1:200 - 1:400

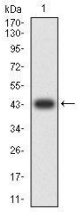
ELISA: 1:10000

Not yet tested in other applications.

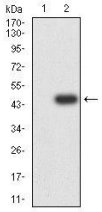
## Images



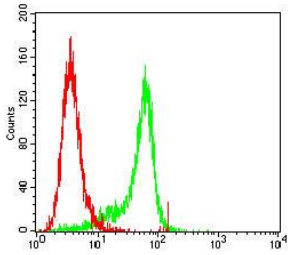

Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)




Western blot analysis using ATP6V0A4 mAb against human ATP6V0A4 (AA: 228-390) recombinant protein. (Expected MW is 44.5 kDa)




Western blot analysis using ATP6V0A4 mAb against HEK293-6e (1) and ATP6V0A4 (AA: 228-390)-hIgGFc transfected HEK293-6e (2) cell lysate.




Flow cytometric analysis of Hela cells using ATP6V0A4 mouse mAb (green) and negative control (red).

## Storage

Store at 4°C short term. Aliquot and store at -20°C long term.

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