

ATP6V0A4 Monoclonal Antibody

Description

Product type	Antibody
Code	BT-MCA2796
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	IHC,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', 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

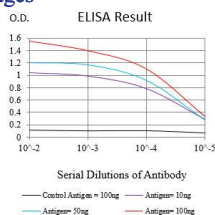
IHC-p: 1:200 - 1:1000

FCM: 1:200 - 1:400

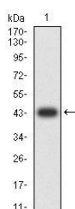
ELISA: 1:10000

Not yet tested in other applications.

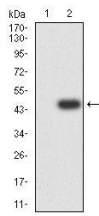
Images



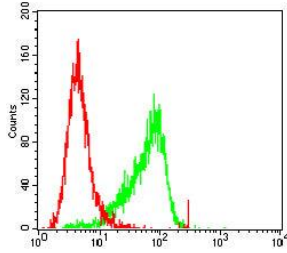
Black line: Control Antigen (100 ng);Purple line: Antigen (10ng); Blue line: Antigen (50 ng); Red line:Antigen (100 ng)



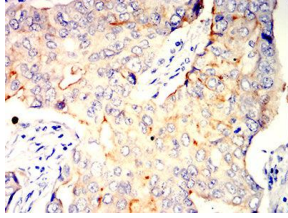
Western blot analysis using ATP6V0A4 mAb against human ATP6V0A4 (AA: 228-390) recombinant protein. (Expected MW is 44.5 kDa)



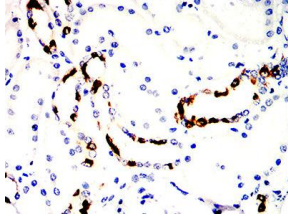
Western blot analysis using ATP6V0A4 mAb against HEK293-6e (1) and ATP6V0A4 (AA: 228-390)-hIgGFc transfected HEK293-6e (2) cell lysate.



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



Immunohistochemical analysis of paraffin-embedded breast cancer tissues using ATP6V0A4 mouse mAb with DAB staining.



Immunohistochemical analysis of paraffin-embedded human kidney tissues using ATP6V0A4 mouse mAb with DAB staining.

Storage

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

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