abcam

Product datasheet

Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free ab251387

Recombinant RabMAb

12 Images

Overview

Product name	Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free
Description	Rabbit monoclonal [EPR18320-38] to ATP6V0D1/P39 - BSA and Azide free
Host species	Rabbit
Tested applications	**Suitable for:** ICC, WB, Flow Cyt, IP, IHC-P
Species reactivity	**Reacts with:** Mouse, Rat, Human
Immunogen	Recombinant fragment within Human ATP6V0D1/P39 aa 100-350. The exact sequence is proprietary. Database link: P61421
General notes	ab251387 is the carrier-free version of ab202899 This format is designed for use in antibody labeling, including fluorochromes, metal isotopes, oligonucleotides, enzymes. Our carrier-free formats are supplied in a buffer free of BSA, sodium azide and glycerol for higher conjugation efficiency. Use our conjugation kits for antibody conjugates that are ready-to-use in as little as 20 minutes with <1 minute hands-on-time and 100% antibody recovery: available for fluorescent dyes, HRP, biotin and gold. Ab251387 is compatible with the Maxpar® Antibody Labeling Kit from Fluidigm. *Maxpar® is a trademark of Fluidigm Canada Inc.* This product was previously labelled as ATP6V0D1 This product is a recombinant monoclonal antibody, which offers several advantages including: - High batch-to-batch consistency and reproducibility - Improved sensitivity and specificity - Long-term security of supply - Animal-free production For more information see here. Our RabMAb® technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb® patents. Reproducibility is key to advancing scientific discovery and accelerating scientists' next

breakthrough.

Abcam is leading the way with our range of recombinant antibodies, knockout-validated antibodies and knockout cell lines, all of which support improved reproducibility.

We are also planning to innovate the way in which we present recommended applications and species on our product datasheets, so that only applications & species that have been tested in our own labs, our suppliers or by selected trusted collaborators are covered by our Abpromise™ guarantee.

In preparation for this, we have started to update the applications & species that this product is Abpromise guaranteed for.

We are also updating the applications & species that this product has been "predicted to work with," however this information is not covered by our Abpromise guarantee.

Applications & species from publications and Abreviews that have not been tested in our own labs or in those of our suppliers are not covered by the Abpromise guarantee.

Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, as well as customer reviews and Q&As.

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C. Do Not Freeze.
Storage buffer	pH: 7.2 Constituent: PBS
Carrier free	Yes
Clonality	Monoclonal
Clone number	EPR18320-38
Isotype	IgG

Applications

Our Abpromise guarantee covers the use of **ab251387** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

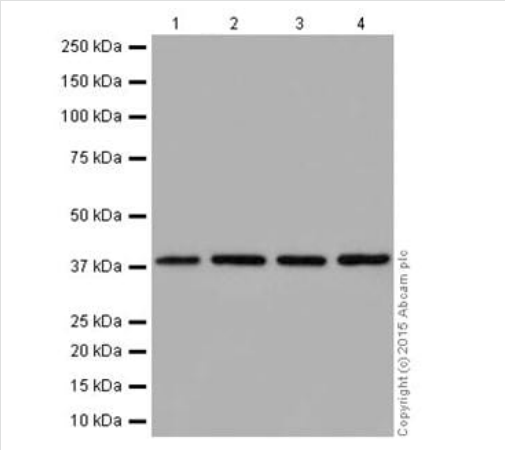
Application	Abreviews	Notes
ICC		Use at an assay dependent concentration.
WB		Use at an assay dependent concentration. Detects a band of approximately 40 kDa (predicted molecular weight: 40 kDa).
Flow Cyt		Use at an assay dependent concentration.
IP		Use at an assay dependent concentration.

Application	Abreviews	Notes
IHC-P		Use at an assay dependent concentration. Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

Target

Function	Subunit of the integral membrane V0 complex of vacuolar ATPase. Vacuolar ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells, thus providing most of the energy required for transport processes in the vacuolar system. May play a role in coupling of proton transport and ATP hydrolysis (By similarity). May play a role in cilium biogenesis through regulation of the transport and the localization of proteins to the cilium.
Tissue specificity	Ubiquitous.
Sequence similarities	Belongs to the V-ATPase V0D/AC39 subunit family.
Cellular localization	Membrane. Localizes to centrosome and the base of the cilium.

Images



Western blot - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

All lanes : Anti-ATP6V0D1/P39 antibody [EPR18320-38] (ab202899) at 1/10000 dilution

Lane 1 : Human fetal kidney
Lane 2 : HeLa (Human epithelial cells from cervix adenocarcinoma)
Lane 3 : MCF-7 (Human breast adenocarcinoma cell line)
Lane 4 : A431 (Human epidermoid carcinoma)

Lysates/proteins at 20 µg per lane.

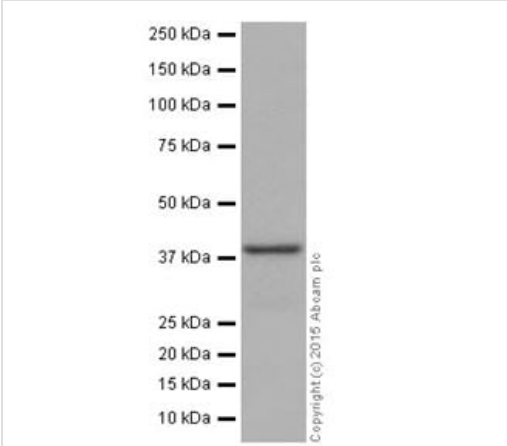
Secondary
All lanes : Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/50000 dilution

Predicted band size: 40 kDa
Observed band size: 40 kDa

Exposure time: 1 minute

This data was developed using ab202899, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

Anti-ATP6V0D1/P39 antibody [EPR18320-38] (ab202899) at 1/2000 dilution + Human fetal brain at 10 µg

Secondary

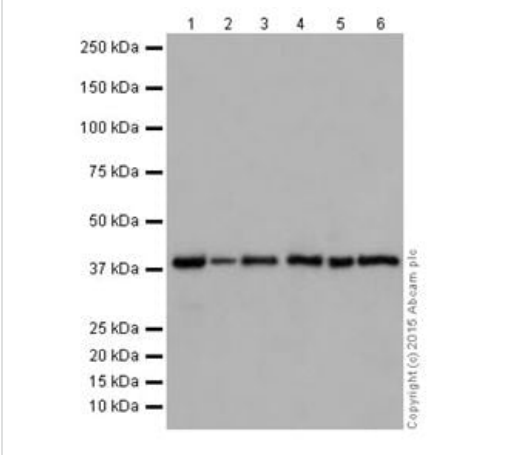
Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG at 1/1000 dilution

Predicted band size: 40 kDa
Observed band size: 40 kDa

Exposure time: 5 seconds

This data was developed using ab202899, the same antibody clone in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.



Western blot - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

All lanes : Anti-ATP6V0D1/P39 antibody [EPR18320-38] (ab202899) at 1/2000 dilution

Lane 1 : Mouse kidney
Lane 2 : Mouse spleen
Lane 3 : Rat spleen
Lane 4 : C6 (Rat glial tumor cells)
Lane 5 : PC-12 (Rat adrenal gland pheochromocytoma)
Lane 6 : NIH/3T3 (mouse embryo fibroblast cells)

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat Anti-Rabbit IgG, (H+L), Peroxidase conjugated (ab97051) at 1/50000 dilution

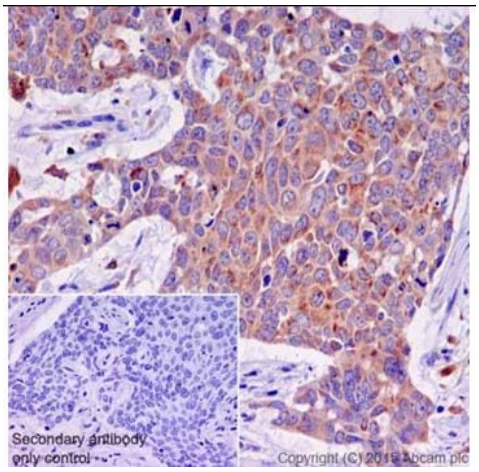
Predicted band size: 40 kDa
Observed band size: 40 kDa

Exposure time: 5 seconds

This data was developed using ab202899, the same antibody clone

in a different buffer formulation.

Blocking and dilution buffer: 5% NFDM/TBST.

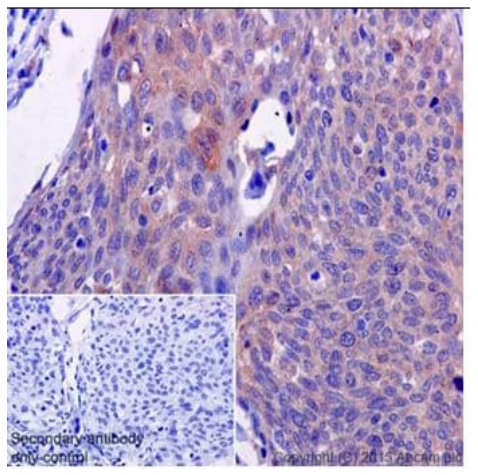


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

This data was developed using ab202899, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human breast carcinoma tissue labeling ATP6V0D1/P39 with ab202899 at 1/250 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on Human breast carcinoma tissue is observed. Counter stained with Hematoxylin.
Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.

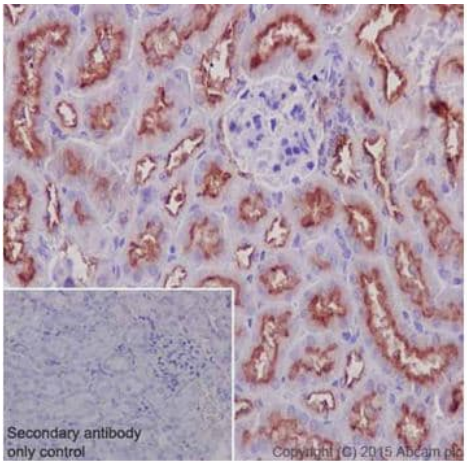


Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

This data was developed using ab202899, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Human cervix carcinoma tissue labeling ATP6V0D1/P39 with ab202899 at 1/250 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on Human cervix carcinoma tissue is observed. Counter stained with Hematoxylin.
Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



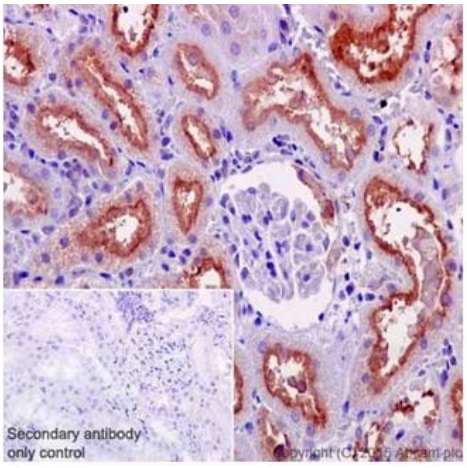
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

This data was developed using ab202899, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Mouse kidney tissue labeling ATP6V0D1/P39 with ab202899 at 1/250 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on Mouse kidney tissue is observed. Counter stained with Hematoxylin.

Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



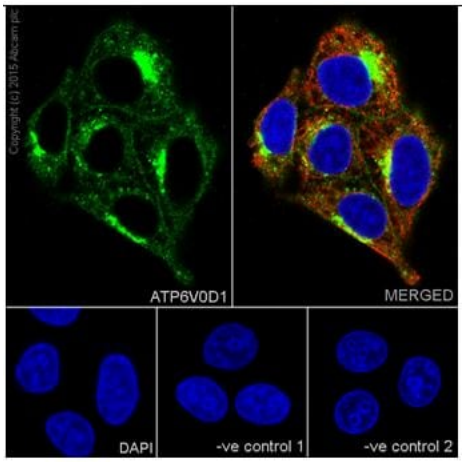
Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

This data was developed using ab202899, the same antibody clone in a different buffer formulation.

Immunohistochemical analysis of paraffin-embedded Rat kidney tissue labeling ATP6V0D1/P39 with ab202899 at 1/250 dilution followed by Goat Anti-Rabbit IgG H&L (HRP) (ab97051) at 1/500 dilution. Cytoplasmic staining on Rat kidney tissue is observed. Counter stained with Hematoxylin.

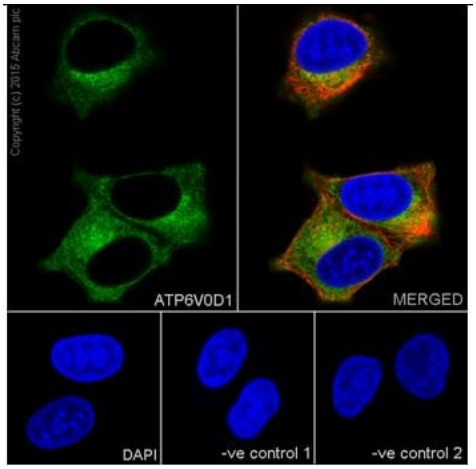
Negative control: Used PBS instead of primary antibody, secondary antibody is Goat Anti-Rabbit IgG H&L (HRP) (ab97051).

Perform heat mediated antigen retrieval with Tris/EDTA buffer pH 9.0 before commencing with IHC staining protocol.



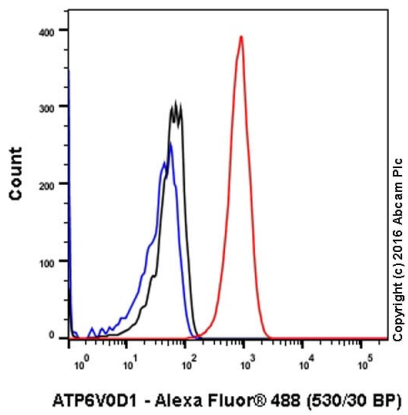
Immunocytochemistry - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

This data was developed using ab202899, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized HeLa (Human epithelial cells from cervix adenocarcinoma) cells labeling ATP6V0D1/P39 with ab202899 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Cytoplasm staining on HeLa cell line is observed. The nuclear counterstain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (Alexa Fluor® 594 Goat anti-Mouse secondary) at 1/1000 dilution (red).
The negative controls are as follows:-
-ve control 1 - ab202899 at 1/500 dilution followed by ab150120 (Alexa Fluor® 594 Goat anti-Mouse secondary) at 1/1000 dilution.
-ve control 2. - ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor® 488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Immunocytochemistry - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

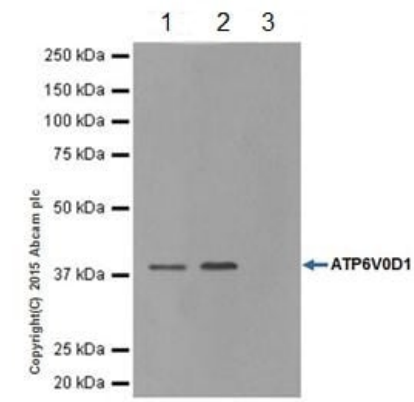
This data was developed using ab202899, the same antibody clone in a different buffer formulation.
Immunofluorescent analysis of 4% paraformaldehyde-fixed, 0.1% Triton X-100 permeabilized MCF-7 (Human breast adenocarcinoma) cells labeling ATP6V0D1/P39 with ab202899 at 1/500 dilution, followed by Goat anti-rabbit IgG (Alexa Fluor® 488) (ab150077) secondary antibody at 1/1000 dilution (green). Cytoplasm staining on MCF-7 cell line is observed. The nuclear counterstain is DAPI (blue). Tubulin is detected with ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution and ab150120 (Alexa Fluor® 594 Goat anti-Mouse secondary) at 1/1000 dilution (red).
The negative controls are as follows:-
-ve control 1 - ab202899 at 1/500 dilution followed byab150120 (Alexa Fluor® 594 Goat anti-Mouse secondary) at 1/1000 dilution.
-ve control 2 - ab7291 (anti-Tubulin mouse mAb) at 1/1000 dilution followed by ab150077 (Alexa Fluor® 488 Goat Anti-Rabbit IgG H&L) at 1/1000 dilution.



Flow Cytometry - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

This data was developed using ab202899, the same antibody clone in a different buffer formulation.

Flow Cytometry analysis of HeLa cells labelling ATP6V0D1/P39 with ab202899 at 1/800 (red). Cells were fixed with 4% paraformaldehyde and permeabilized with 90% methanol. An Alexa Fluor® 488-conjugated goat anti-rabbit IgG (1/2000) was used as the secondary antibody. Black - Isotype control, rabbit monoclonal IgG. Blue - Unlabelled control, cells without incubation with primary and secondary antibodies.

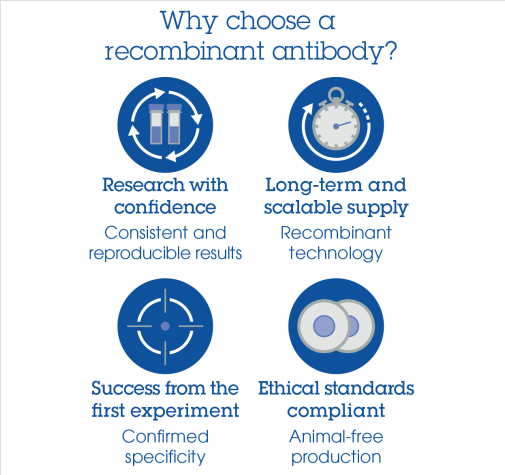


Immunoprecipitation - Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

This data was developed using ab202899, the same antibody clone in a different buffer formulation.

ATP6V0D1/P39 was immunoprecipitated from 1mg of MCF-7 (Human breast adenocarcinoma cell line) whole cell lysate with ab202899 at 1/50 dilution. Western blot was performed from the immunoprecipitate using ab202899 at 1/5000 dilution. Anti-Rabbit IgG (HRP), specific to the non-reduced form of IgG, was used as secondary antibody at 1/1500 dilution. Lane 1: Input MCF-7 whole cell lysate (10 µg). Lane 2: MCF-7 whole cell lysate following precipitation. Lane 3: Rabbit monoclonal IgG (ab172730) instead of ab202899 in MCF-7 whole cell lysate.

Blocking and dilution buffer: 5% NFDM/TBST.



Anti-ATP6V0D1/P39 antibody [EPR18320-38] - BSA and Azide free (ab251387)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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