abcam

Product datasheet

Anti-ATP6V1B2 antibody ab73404

★★★★★ 1 Abreviews 20 References 5 Images

Overview

Product name	Anti-ATP6V1B2 antibody
Description	Rabbit polyclonal to ATP6V1B2
Host species	Rabbit
Tested applications	**Suitable for:** IP, IHC-P, WB, ICC/IF
Species reactivity	**Reacts with:** Mouse, Rat, Human **Predicted to work with:** Cow, Cynomolgus monkey, Orangutan
Immunogen	Synthetic peptide conjugated to KLH derived from within residues 450 to the C-terminus of Mouse ATP6V1B2.Read Abcam's proprietary immunogen policy(Peptide available as **ab74898**.)
Positive control	This antibody gave a positive signal in the following tissue lysates: Rat hippocampus; Mouse hippocampus; Mouse kidney; Mouse testis; Human kidney; Human testis.
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. 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, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C or -80°C. Avoid freeze / thaw cycle.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituent: PBS Batches of this product that have a concentration < 1mg/ml may have BSA added as a stabilising agent. If you would like information about the formulation of a specific lot, please contact our scientific support team who will be happy to help.
Purity	Immunogen affinity purified

Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab73404 in the following tested applications.

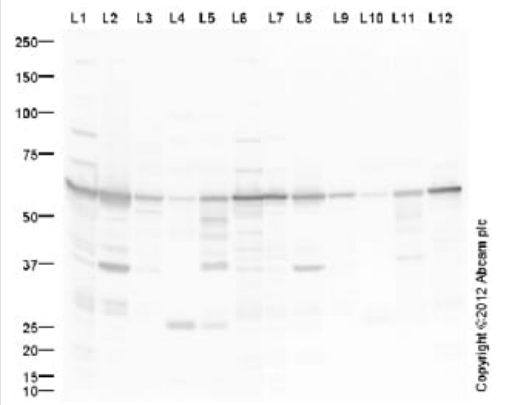
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IP		Use a concentration of 5 µg/ml.
IHC-P	★★★★★ (1)	Use a concentration of 0.1 - 0.5 µg/ml. Perform heat mediated antigen retrieval before commencing with IHC staining protocol.
WB		Use a concentration of 1 µg/ml. Detects a band of approximately 57 kDa (predicted molecular weight: 57 kDa).
ICC/IF		Use a concentration of 5 µg/ml.

Target

Function	Non-catalytic subunit of the peripheral V1 complex of vacuolar ATPase. V-ATPase is responsible for acidifying a variety of intracellular compartments in eukaryotic cells.
Sequence similarities	Belongs to the ATPase alpha/beta chains family.
Cellular localization	Endomembrane system. Melanosome. Endomembrane. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



Western blot - Anti-ATP6V1B2 antibody (ab73404)

All lanes : Anti-ATP6V1B2 antibody (ab73404) at 1 µg/ml

Lane 1 : Hippocampus (Mouse) Tissue Lysate
Lanes 2 & 8 : Kidney (Mouse) Tissue Lysate
Lanes 3 & 9 : Testis (Mouse) Tissue Lysate
Lanes 4 & 10 : Human testis tissue lysate - total protein (**ab30257**)
Lanes 5 & 11 : Human kidney tissue lysate - total protein (**ab30203**)
Lanes 6 & 12 : Rat Hippocampus Tissue Lysate
Lane 7 : Hippocampus (Mouse) Tissue Lysate

Lysates/proteins at 10 µg per lane.

Secondary
All lanes : Goat polyclonal to Rabbit IgG - H&L - Pre-Adsorbed

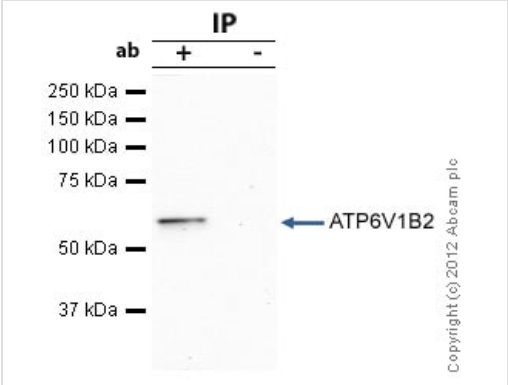
(HRP) (**ab65484**) at 1/3000 dilution

Performed under reducing conditions.

Predicted band size: 57 kDa
Observed band size: 57 kDa
Additional bands at: 37 kDa. We are unsure as to the identity of these extra bands.

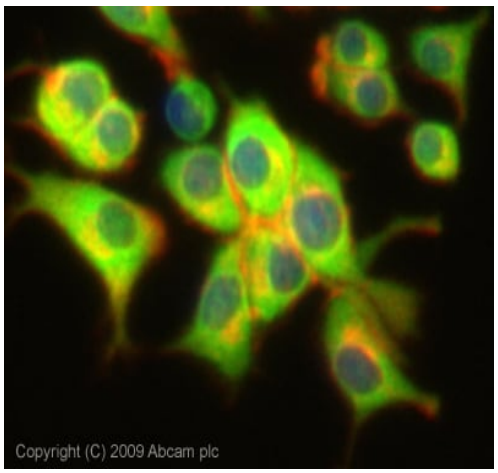
Exposure time: 30 seconds

Lanes 1-6 were blocked with 5% BSA, Lanes 7-12 were blocked with 3% milk. Abcam recommends using milk as the blocking agent. Abcam welcomes customer feedback and would appreciate any comments regarding this product and the data presented above.



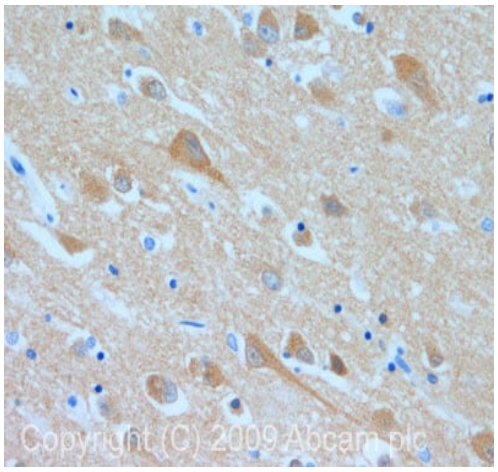
- Anti-ATP6V1B2 antibody (ab73404)

ATP6V1B2 was immunoprecipitated using 0.5mg Mouse Testis tissue lysate, 5µg of Rabbit polyclonal to ATP6V1B2 and 50µl of protein G magnetic beads (+). No antibody was added to the control (-).
The antibody was incubated under agitation with Protein G beads for 10min, Mouse Testis tissue lysate lysate diluted in RIPA buffer was added to each sample and incubated for a further 10min under agitation.
Proteins were eluted by addition of 40µl SDS loading buffer and incubated for 10min at 70^{o}C; 10µl of each sample was separated on a SDS PAGE gel, transferred to a nitrocellulose membrane, blocked with 5% BSA and probed with ab73404.
Secondary: Mouse monoclonal [SB62a] Secondary Antibody to Rabbit IgG light chain (HRP) (**ab99697**).
Band: 57kDa; ATP6V1B2



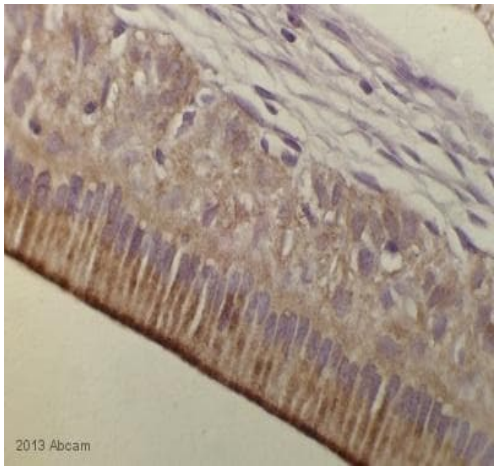
Immunocytochemistry/ Immunofluorescence - Anti-ATP6V1B2 antibody (ab73404)

ICC/IF image of ab73404 stained PC12 cells. The cells were 100% methanol fixed (5 min) and then incubated in 1%BSA / 10% normal goat serum / 0.3M glycine in 0.1% PBS-Tween for 1h to permeabilise the cells and block non-specific protein-protein interactions. The cells were then incubated with the antibody (ab73404, 5µg/ml) overnight at +4°C. The secondary antibody (green) was Alexa Fluor® 488 goat anti-rabbit IgG (H+L) used at a 1/1000 dilution for 1h. Alexa Fluor® 594 WGA was used to label plasma membranes (red) at a 1/200 dilution for 1h. DAPI was used to stain the cell nuclei (blue) at a concentration of 1.43µM. This antibody also gave a positive result in 4% PFA fixed (10 min) PC12 cells at 5µg/ml.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP6V1B2 antibody (ab73404)

IHC image of ATP6V1B2 staining in human hippocampus formalin fixed paraffin embedded tissue section, performed on a Leica Bond™ system using the standard protocol F. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20 mins. The section was then incubated with ab73404, 0.5µg/ml, for 15 mins at room temperature and detected using an HRP conjugated compact polymer system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX.



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-ATP6V1B2 antibody (ab73404)

This image is courtesy of an anonymous Abreview

ab73404 staining RAt incisor tissue sections by Immunohistochemistry (IHC-P - paraformaldehyde-fixed, paraffin-embedded sections). Tissue was fixed with formaldehyde and blocked with 2.5% serum for 30 minutes at 22°C. Samples were incubated with primary antibody (1/1000 in 1% BSA/ 0.5% Triton X-100 in PBS) for 16 hours at 4°C. An undiluted peroxidase-conjugated Goat anti-rabbit IgG polyclonal was used as the secondary antibody.

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