

Product Datasheet

ATP6V1A Antibody - BSA Free NBP1-33021

Unit Size: 0.1 ml

Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.

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NBP1-33021

ATP6V1A Antibody - BSA Free

Product Information	
Unit Size	0.1 ml
Concentration	Concentrations vary lot to lot. See vial label for concentration. If unlisted please contact technical services.
Storage	Aliquot and store at -20C or -80C. Avoid freeze-thaw cycles.
Clonality	Polyclonal
Preservative	0.025% Proclin 300
Isotype	IgG
Purity	Antigen Affinity-purified
Buffer	PBS (pH 7), 20% Glycerol
Target Molecular Weight	68 kDa

Product Description	
Host	Rabbit
Gene ID	523
Gene Symbol	ATP6V1A
Species	Human, Mouse
Reactivity Notes	Immunogen displays the following percentage of sequence identity for non-tested species: Chicken (83%).
Immunogen	Recombinant protein encompassing a sequence within the center region of human ATP6V1A. The exact sequence is proprietary.

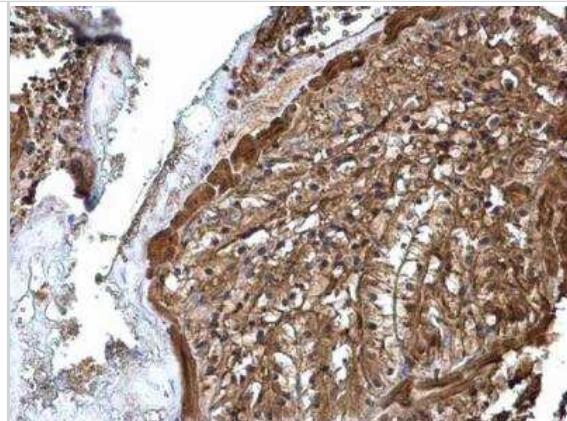
Product Application Details	
Applications	Western Blot, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Paraffin, Immunoprecipitation, Knockout Validated
Recommended Dilutions	Western Blot 1:1000-1:10000, Immunohistochemistry 1:100-1:1000, Immunocytochemistry/ Immunofluorescence Reactivity reported in (PMID:21272169), Immunoprecipitation 1:100-1:500, Immunohistochemistry-Paraffin 1:100-1:1000, Knockout Validated

Images

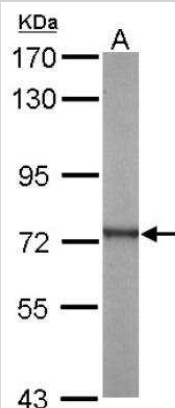
Western Blot: ATP6V1A Antibody [NBP1-33021] - Immunoblot for Voa and V1A subunits indicate presence of subunits during the CCV isolation procedure. Image collected and cropped by CiteAb from the following publication (<https://elifesciences.org/articles/32569#content>) licensed under a CC-BY license.



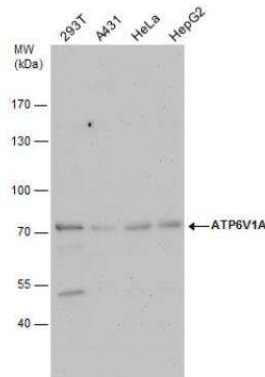
Immunohistochemistry: ATP6V1A Antibody [NBP1-33021] - Mouse prostate. ATP6V1A antibody diluted at 1:500. Antigen Retrieval: Trilogy™ (EDTA based, pH 8.0) buffer, 15min.



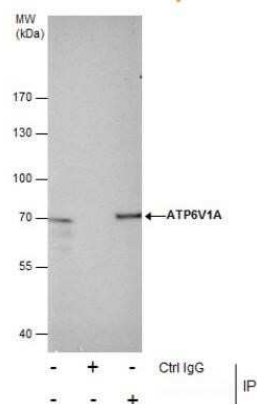
Western Blot: ATP6V1A Antibody [NBP1-33021] - Sample (20 ug of whole cell lysate) A: mouse brain 7.5% SDS PAGE; antibody diluted at 1:5000.



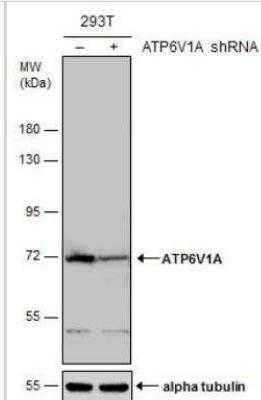
Western Blot: ATP6V1A Antibody [NBP1-33021] - Various whole cell extracts (30ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with ATP6V1A antibody diluted by 1:10000.



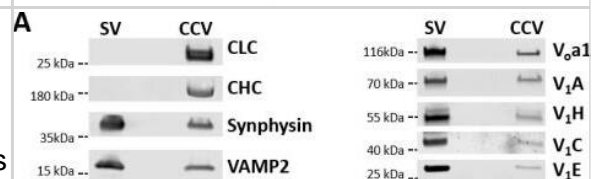
Immunoprecipitation: ATP6V1A Antibody [NBP1-33021] - ATP6V1A Antibody [NBP1-33021] - Immunoprecipitation of ATP6V1A protein from HeLa whole cell extracts using 5 ug of ATP6V1A antibody. Western blot analysis was performed using ATP6V1A antibody EasyBlot anti-Rabbit IgG was used as a secondary reagent.



Western Blot: ATP6V1A Antibody [NBP1-33021] - Non-transfected (-) and transfected (+) 293T whole cell extracts (30 ug) were separated by 7.5% SDS-PAGE, and the membrane was blotted with ATP6V1A antibody. HRP-conjugated anti-rabbit IgG antibody was used to detect the primary antibody.



Western Blot: ATP6V1A Antibody [NBP1-33021] - Functional analysis of the vATPase on CCVs. (A) Immunoblots of isolated SVs & CCVs for the clathrin light (LC) & heavy chains (HC), & SV marker proteins synaptophysin (Synph) & VAMP2 (left panel), as well as various Vo & V1 subunits of vATPase (right panel). (B) The ratio of the Vo & V1 as well as synaptophysin & VAMP2 (as SV markers) detected by immunoblotting in equal protein amount of CCVs & SVs (C) Normalized levels of Vo & V1 in CCV & SV samples, indicating that Vo:V1 ratio is 1:1 in both preparations. (D) ATPase activity measured in 1.3 μ g of isolated SVs & CCVs. (E) Blocking percentage of ATPase activity by NEM (vATPase inhibitor) in 1.3 μ g of SVs & CCVs. Error bars in (B–E) represent SD of 3–4 experimental replicates ($p < 0.01$ for D & E, and > 0.05 for C). Both Vo & V1 subunits are present on CCVs. Immunoblot for Voa & V1A subunits indicate presence of subunits during the CCV isolation procedure. ATPase activity measurements in isolated SVs. To make sure that the measured ATPase activity is within the standard curve range of the used kit, we tested different amounts of isolated SVs. The measurements of ATPase activity were then performed with 1.3 μ g of SVs & CCVs which is in the linear range (inset). Image collected & cropped by CiteAb from the following publication (<https://elifesciences.org/articles/32569>), licensed under a CC-BY license. Not internally tested by Novus Biologicals.



Publications

Farsi Z, GowriSankaran S, Kronic M et al. Clathrin coat controls synaptic vesicle acidification by blocking vacuolar ATPase activity. *Elife* 2018-04-13 [PMID: 29652249] (Mouse)

Bacac M, Fusco C, Planche A et al. Securin and separase modulate membrane traffic by affecting endosomal acidification *Traffic* 2011-05-01 [PMID: 21272169] (ICC/IF, Human)



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Products Related to NBP1-33021

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NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
NBP2-55164PEP	ATP6V1A Recombinant Protein Antigen

Limitations

This product is for research use only and is not approved for use in humans or in clinical diagnosis. Primary Antibodies are guaranteed for 1 year from date of receipt.

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