

# Product Datasheet

## Sodium Potassium ATPase Alpha 1 Antibody (464.6) - Azide and BSA Free NBP2-80956

Unit Size: 0.1 mg

Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.

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Updated 9/9/2025 v.20.1

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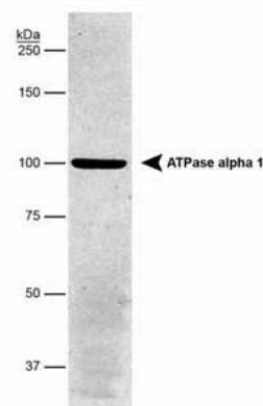


**NBP2-80956****Sodium Potassium ATPase Alpha 1 Antibody (464.6) - Azide and BSA Free**

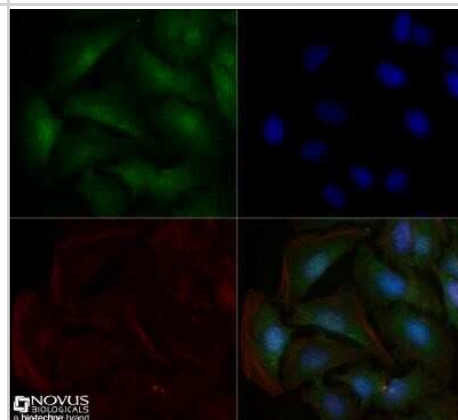
<b>Product Information</b>	
<b>Unit Size</b>	0.1 mg
<b>Concentration</b>	1 mg/ml
<b>Storage</b>	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
<b>Clonality</b>	Monoclonal
<b>Clone</b>	464.6
<b>Preservative</b>	No Preservative
<b>Isotype</b>	IgG1 Kappa
<b>Purity</b>	Protein G purified
<b>Buffer</b>	PBS
<b>Target Molecular Weight</b>	112 kDa
<b>Product Description</b>	
<b>Description</b>	Novus Biologicals Mouse Sodium Potassium ATPase Alpha 1 Antibody (464.6) - Azide and BSA Free (NB300-146) is a monoclonal antibody validated for use in IHC, WB, Flow, ICC/IF and IP. All Novus Biologicals antibodies are covered by our 100% guarantee.
<b>Host</b>	Mouse
<b>Gene ID</b>	476
<b>Gene Symbol</b>	ATP1A1
<b>Species</b>	Human, Mouse, Rat, Porcine, Bovine, Canine, Drosophila, Guinea Pig, Primate, Rabbit, Sheep, Xenopus, Yeast
<b>Reactivity Notes</b>	Publication with sheep shown (PMID: 18424241); however results may vary.
<b>Immunogen</b>	Purified Sodium Potassium ATPase Alpha 1 from rabbit renal outer medulla. [UniProt# Q9N0Z6]
<b>Product Application Details</b>	
<b>Applications</b>	Western Blot, Immunohistochemistry-Paraffin, Flow Cytometry, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry, Immunohistochemistry-Frozen, Immunoprecipitation, CyTOF-ready
<b>Recommended Dilutions</b>	Western Blot 1:1000-1:10000, Flow Cytometry 1:50 - 1:200, Immunohistochemistry 1:200, Immunocytochemistry/ Immunofluorescence 1:50 - 1:1000, Immunoprecipitation reported in scientific literature (PMID 27748972), Immunohistochemistry-Paraffin 1:200, Immunohistochemistry-Frozen reported in scientific literature (PMID 26941236), CyTOF-ready
<b>Application Notes</b>	In Western Blot, a distinct band at ~ 112 kDa is seen. Do not boil the sample prior to loading on the gel for Western Blot (60 degrees Celsius appears to work fine).

## Images

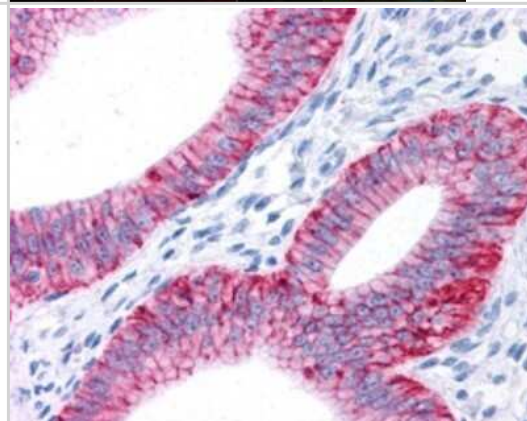
**Western Blot:** Sodium Potassium ATPase Alpha 1 Antibody (464.6) - Azide and BSA Free [NBP2-80956] - Analysis detecting Na, K-ATPase (alpha) in porcine proximal tubule protein. Image using the standard format of this product.



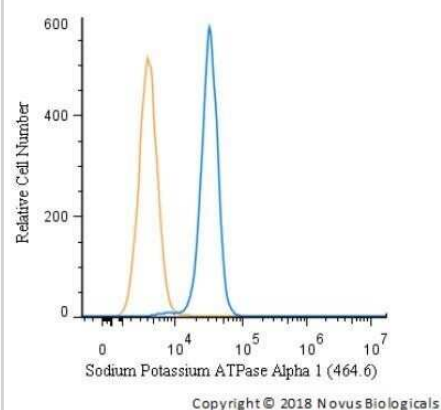
**Immunocytochemistry/Immunofluorescence:** Sodium Potassium ATPase Alpha 1 Antibody (464.6) - Azide and BSA Free [NBP2-80956] - HeLa cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-Sodium Potassium ATPase Alpha 1 (464.6) at 10 ug/ml overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image using the standard format of this product.



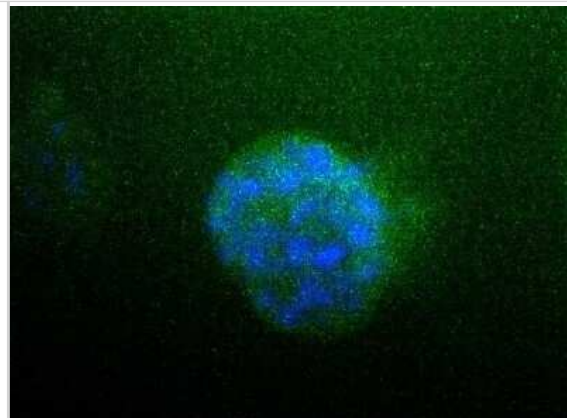
**Immunohistochemistry:** Sodium Potassium ATPase Alpha 1 Antibody (464.6) - Azide and BSA Free [NBP2-80956] - Staining of human endometrial glands within the uterus using NB300-146. Note the absence of staining in the surrounding myometrial smooth muscle. Image using the standard format of this product.



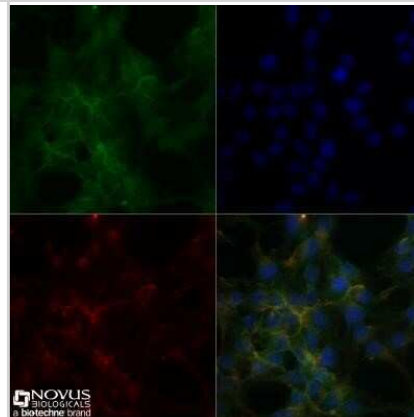
**Flow Cytometry:** Sodium Potassium ATPase Alpha 1 Antibody (464.6) - Azide and BSA Free [NBP2-80956] - An intracellular stain was performed on A549 cells with - Purified NBP2-61137 and a matched isotype control. Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 1 ug/mL for 30 minutes at room temperature, followed by mouse F(ab)2 IgG (H+L) APC-conjugated secondary antibody (F0101B, R&D Systems). Image using the Purified form of this antibody.



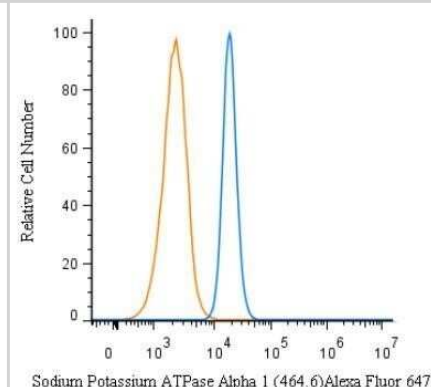
Immunocytochemistry/Immunofluorescence: Sodium Potassium ATPase Alpha 1 Antibody (464.6) - Azide and BSA Free [NBP2-80956] - Detection of ATPA1 (Green) in HepG2 cells using NB300-146. Nuclei (Blue) were counterstained using Hoechst 33258. Image using the standard format of this product.



Immunocytochemistry/Immunofluorescence: Sodium Potassium ATPase Alpha 1 Antibody (464.6) - Azide and BSA Free [NBP2-80956] - Hek293 cells were fixed for 10 minutes using 10% formalin and then permeabilized for 5 minutes using 1X TBS + 0.5% Triton X-100. The cells were incubated with anti-Sodium Potassium ATPase Alpha 1 (464.6) at 10 ug/ml overnight at 4C and detected with an anti-mouse DyLight 488 (Green) at a 1:500 dilution. Actin was detected with Phalloidin 568 (Red) at a 1:200 dilution. Nuclei were counterstained with DAPI (Blue). Cells were imaged using a 40X objective. Image using the standard format of this product.



Flow Cytometry: Sodium Potassium ATPase Alpha 1 Antibody (464.6) - Azide and BSA Free [NBP2-80956] - An intracellular stain was performed on A549 cells with NBP2-61137AF647 (Blue) and a matched isotype control (Orange). Cells were fixed with 4% PFA and then permeabilized with 0.1% saponin. Cells were incubated in an antibody dilution of 2.5 ug/mL for 30 minutes at room temperature. Both antibodies were directly conjugated to Alexa Fluor 647. Image using the Alexa Fluor 647 form of this antibody.



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### **Products Related to NBP2-80956**

HAF007	Goat anti-Mouse IgG Secondary Antibody [HRP]
NB720-B	Rabbit anti-Mouse IgG (H+L) Secondary Antibody [Biotin]
NBP1-43319-0.5mg	Mouse IgG1 Kappa Isotype Control (P3.6.2.8.1)
NBL1-07807	Sodium Potassium ATPase Alpha 1 Overexpression Lysate

### **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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