

Product Datasheet

Sodium Potassium ATPase Alpha 1 Antibody (ST0533) NBP3-33143

Unit Size: 100 ul

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

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Updated 8/7/2025 v.20.1

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NBP3-33143**Sodium Potassium ATPase Alpha 1 Antibody (ST0533)****Product Information**

Unit Size	100 ul
Concentration	1 mg/ml
Storage	Store at 4C short term. Aliquot and store at -20C long term. Avoid freeze-thaw cycles.
Clonality	Monoclonal
Clone	ST0533
Preservative	0.05% Sodium Azide
Isotype	IgG
Purity	Protein A purified
Buffer	1*TBS (pH7.4), 0.05% BSA and 40% Glycerol
Target Molecular Weight	113 kDa

Product Description

Host	Rabbit
Gene ID	476
Gene Symbol	ATP1A1
Species	Human, Mouse, Rat
Immunogen	Synthetic peptide within Human Sodium Potassium ATPase Alpha 1 aa 39-83 / 1023. (Uniprot: P05023)

Product Application Details

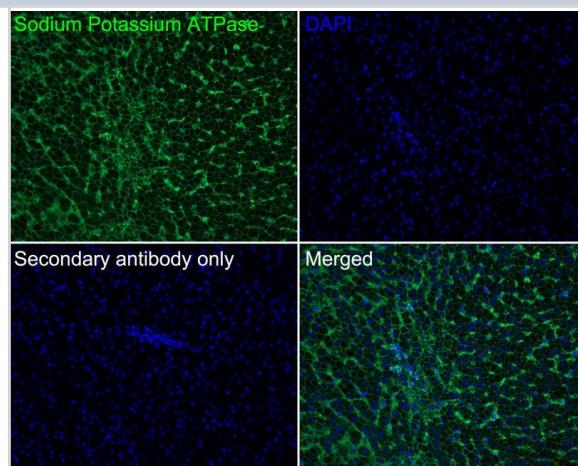
Applications	Western Blot, Immunohistochemistry-Paraffin, Immunocytochemistry/ Immunofluorescence, Immunohistochemistry
Recommended Dilutions	Western Blot 1:50000-1:100000, Immunohistochemistry, Immunocytochemistry/ Immunofluorescence 1:500-1:200, Immunohistochemistry-Paraffin 1:50-1:5000

Images

Immunohistochemistry: Sodium Potassium ATPase Alpha 1 Antibody (ST0533) [NBP3-33143] - Immunofluorescence analysis of paraffin-embedded human liver tissue labeling Sodium Potassium ATPase Alpha 1 with Rabbit anti-Sodium Potassium ATPase Alpha 1 antibody (NBP3-33143) at 1/200 dilution.

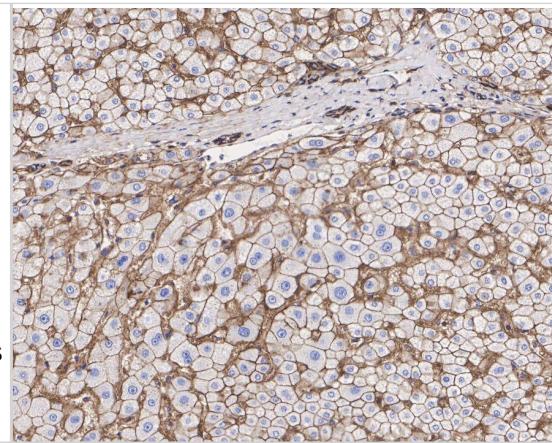
The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 10% negative goat serum for 1 hour at room temperature, washed with PBS, and then probed with the primary antibody (NBP3-33143, green) at 1/200 dilution overnight at 4 °, washed with PBS.

Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. Nuclei were counterstained with DAPI (blue).



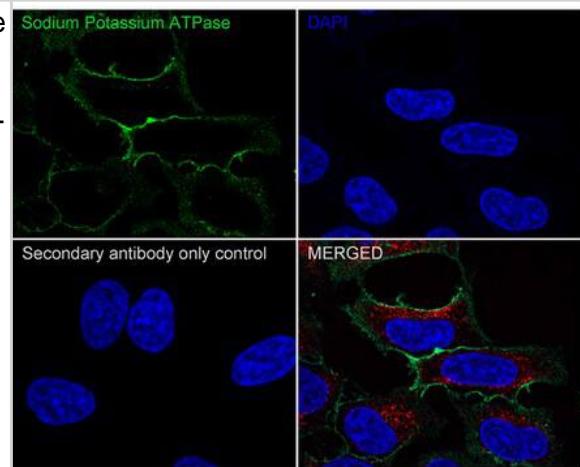
Immunohistochemistry: Sodium Potassium ATPase Alpha 1 Antibody (ST0533) [NBP3-33143] - Immunohistochemical analysis of paraffin-embedded human liver tissue with Rabbit anti-Sodium Potassium ATPase Alpha 1 antibody (NBP3-33143) at 1/2,000 dilution.

The section was pre-treated using heat mediated antigen retrieval with Tris-EDTA buffer (pH 9.0) for 20 minutes. The tissues were blocked in 1% BSA for 20 minutes at room temperature, washed with ddH₂O and PBS, and then probed with the primary antibody (NBP3-33143) at 1/2,000 dilution for 1 hour at room temperature. The detection was performed using an HRP conjugated compact polymer system. DAB was used as the chromogen. Tissues were counterstained with hematoxylin and mounted with DPX.



Immunocytochemistry/ Immunofluorescence: Sodium Potassium ATPase Alpha 1 Antibody (ST0533) [NBP3-33143] - Immunocytochemistry analysis of HeLa cells labeling Sodium Potassium ATPase Alpha 1 with Rabbit anti-Sodium Potassium ATPase Alpha 1 antibody (NBP3-33143) at 1/500 dilution.

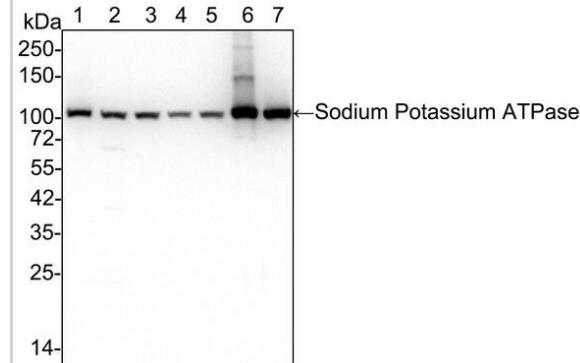
Cells were fixed in 100% precooled methanol for 5 minutes at room temperature, then blocked with 1% BSA in 10% negative goat serum for 1 hour at room temperature. Cells were then incubated with Rabbit anti-Sodium Potassium ATPase antibody at 1/500 dilution in 1% BSA in PBST overnight at 4°C. Goat Anti-Rabbit IgG H&L (iFluor™ 488) was used as the secondary antibody at 1/1,000 dilution. PBS instead of the primary antibody was used as the secondary antibody only control. Nuclear DNA was labelled in blue with DAPI.



Beta tubulin (red) was stained at 1/100 dilution overnight at +4°C. Goat Anti-Mouse IgG H&L (iFluor™ 594) was used as the secondary antibody at 1/1,000 dilution.

Western Blot: Sodium Potassium ATPase Alpha 1 Antibody (ST0533) [NBP3-33143] - Western blot analysis of Sodium Potassium ATPase Alpha 1 on different lysates with Rabbit anti-Sodium Potassium ATPase Alpha 1 antibody (NBP3-33143) at 1/100,000 dilution.

Lane 1: HeLa cell lysate (no heat) (20 µg/Lane)
 Lane 2: HT-29 cell lysate (no heat) (20 µg/Lane)
 Lane 3: HepG2 cell lysate (no heat) (20 µg/Lane)
 Lane 4: NIH/3T3 cell lysate (no heat) (20 µg/Lane)
 Lane 5: L-929 cell lysate (no heat) (20 µg/Lane)
 Lane 6: Mouse brain tissue lysate (no heat) (20 µg/Lane)
 Lane 7: Rat brain tissue lysate (no heat) (20 µg/Lane)



Predicted band size: 113 kDa
 Observed band size: 100 kDa

Exposure time: 20 seconds;

4-20% SDS-PAGE gel.

Proteins were transferred to a PVDF membrane and blocked with 5% NFDM/TBST for 1 hour at room temperature. The primary antibody at 1/100,000 dilution was used in 5% NFDM/TBST at 4°C overnight. Goat Anti-Rabbit IgG - HRP Secondary Antibody at 1:50,000 dilution was used for 1 hour at room temperature.



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Products Related to NBP3-33143

HAF008	Goat anti-Rabbit IgG Secondary Antibody [HRP]
NB7160	Goat anti-Rabbit IgG (H+L) Secondary Antibody [HRP]
NBP2-24891	Rabbit IgG Isotype Control
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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