

A11683

Leader in Biomolecular Solutions for Life Science



Na⁺/K⁺-ATPase Rabbit mAb

Catalog No.: A11683

Recombinant

5 Publications

Basic Information

Observed MW

113kDa

Calculated MW

113kDa

Category

SMab Recombinant Monoclonal Antibody

Applications

WB, IHC-P, IF/ICC, ELISA

Cross-Reactivity

Human, Mouse, Rat

CloneNo number

ARC0674

Background

The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes an alpha 1 subunit. Multiple transcript variants encoding different isoforms have been found for this gene.

Recommended Dilutions

WB	1:10000 - 1:120000
IHC-P	1:100 - 1:500
IF/ICC	1:50 - 1:200

Immunogen Information

Gene ID

476

Swiss Prot

P05023

Immunogen

A synthetic peptide corresponding to a sequence within amino acids 1-100 of human Na⁺/K⁺-ATPase (P05023).

Synonyms

CMT2DD; HOMGSMR2; Na⁺/K⁺-ATPase

Contact



www.abclonal.com

Product Information

Source

Rabbit

Isotype

IgG

Purification

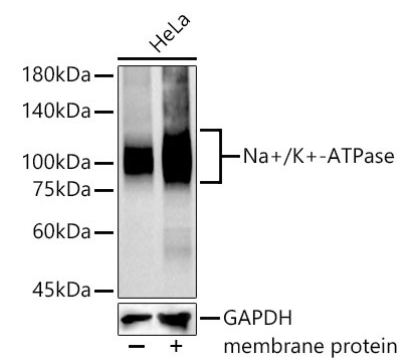
Affinity purification

Storage

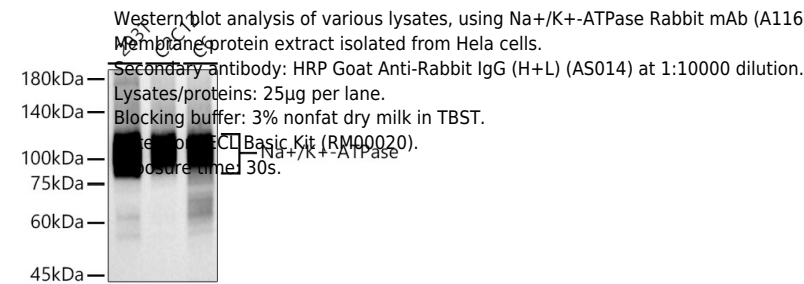
Store at -20°C. Avoid freeze / thaw cycles.

Buffer: PBS with 0.02% sodium azide, 0.05% BSA, 50% glycerol, pH 7.3.

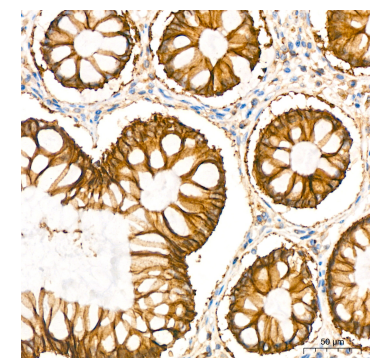
Validation Data



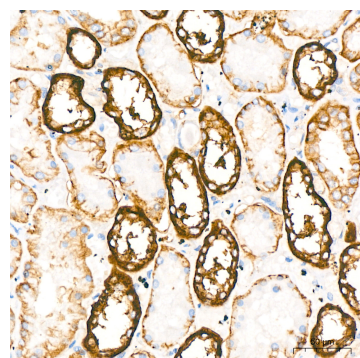
Western blot analysis of lysates from HeLa cells, using Na⁺/K⁺-ATPase Rabbit mAb (A11683) at 1:50000 dilution. Membrane protein extract isolated from HeLa cells.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



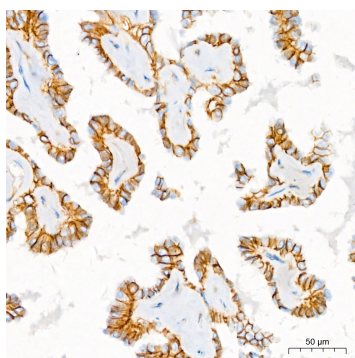
Western blot analysis of various lysates, using Na⁺/K⁺-ATPase Rabbit mAb (A11683) at 1:50000 dilution. Membrane protein extract isolated from HeLa cells.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk in TBST.
Detection: ECL Basic Kit (RM00020).
Exposure time: 30s.



Immunohistochemistry analysis of Na⁺/K⁺-ATPase in paraffin-embedded human colon using Na⁺/K⁺-ATPase Rabbit mAb (A11683) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

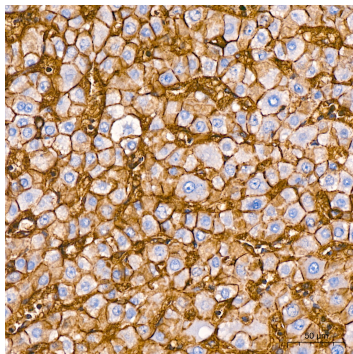


Immunohistochemistry analysis of Na⁺/K⁺-ATPase in paraffin-embedded human kidney using Na⁺/K⁺-ATPase Rabbit mAb (A11683) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

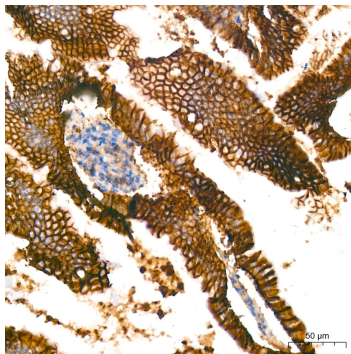


Immunohistochemistry analysis of Na⁺/K⁺-ATPase in paraffin-embedded human thyroid cancer using Na⁺/K⁺-ATPase Rabbit mAb (A11683) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

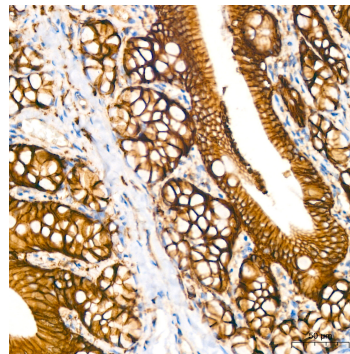
Validation Data



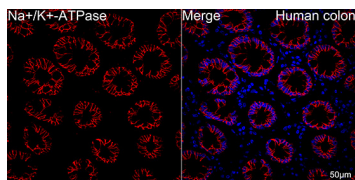
Immunohistochemistry analysis of Na⁺/K⁺-ATPase in paraffin-embedded human liver using Na⁺/K⁺-ATPase Rabbit mAb (A11683) at dilution of 1:200 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Na⁺/K⁺-ATPase in paraffin-embedded mouse colon using Na⁺/K⁺-ATPase Rabbit mAb (A11683) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Immunohistochemistry analysis of Na⁺/K⁺-ATPase in paraffin-embedded rat colon using Na⁺/K⁺-ATPase Rabbit mAb (A11683) at dilution of 1:400 (40x lens). Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



Confocal imaging of human colon using Na⁺/K⁺-ATPase Rabbit mAb (A11683, at dilution of 1:100) (Red). DAPI was used for nuclear staining (blue). Objective: 40x. Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IF staining protocol.