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Na+/K+-ATPase Rabbit mAb

Catalog No.: A11683 Recombinant 5 Publications

Basic Information

Observed MW
113kDa

Calculated MW
113kDa

Category
Primary antibody

Applications
ELISA,WB,IHC-P,IF/ICC

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

400-999-6126

cn.market@abclonal.com.cn

www.abclonal.com.cn

Product Information

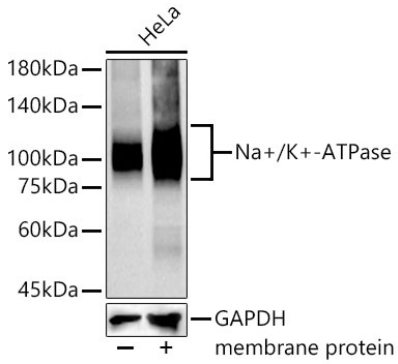
Source
Rabbit

Isotype
IgG

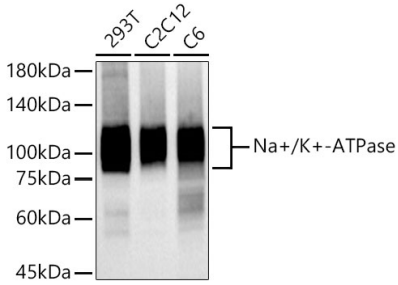
Purification
Affinity purification

Storage
Store at -20℃. Avoid freeze / thaw cycles.
Buffer: PBS with 0.02% sodium azide,0.05% BSA,50% glycerol,pH7.3.

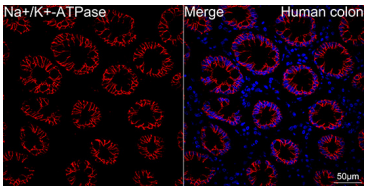
Validation Data



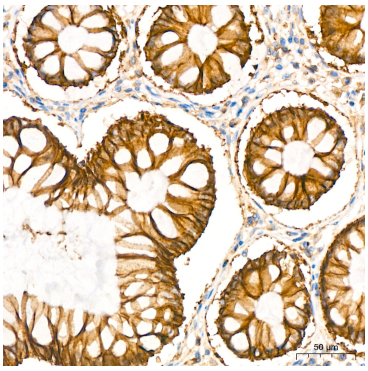
Western blot analysis of lysates from HeLa cells, using Na+/K+-ATPase Rabbit mAb (A11683) at 1:50000 dilution.Membrane protein extract isolated from Hela cells.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat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



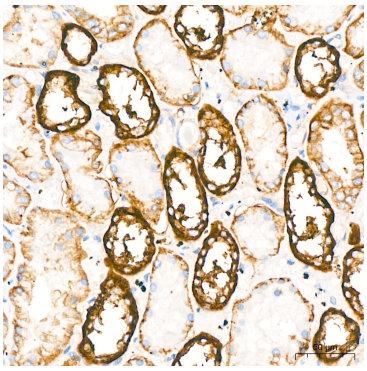
Western blot analysis of various lysates, using Na+/K+-ATPase Rabbit mAb (A11683) at 1:50000 dilution.
Membrane protein extract isolated from Hela cells.
Secondary antibody: HRP Goat Anti-Rabbit IgG (H+L) (AS014) at 1:10000 dilution.
Lysates/proteins: 25µg per lane.
Blocking buffer: 3% nonfat dry milk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



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.

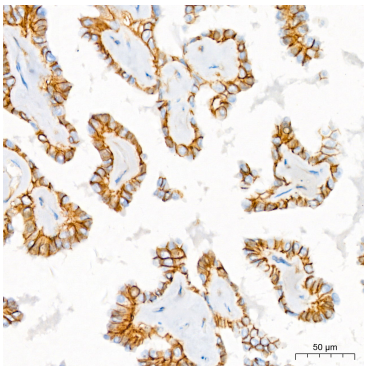


Immunohistochemistry analysis of Na+/K+-ATPase in paraffin-embedded human colon using Na+/K+-ATPase Rabbit mAb (A11683) at dilution of 1:400 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

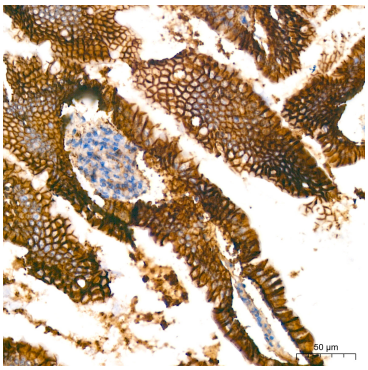


Immunohistochemistry analysis of Na+/K+-ATPase in paraffin-embedded human kidney using Na+/K+-ATPase Rabbit mAb (A11683) at dilution of 1:400 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.

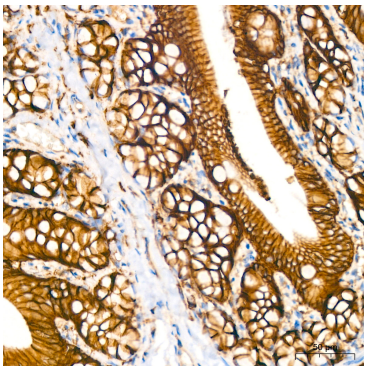
Validation Data



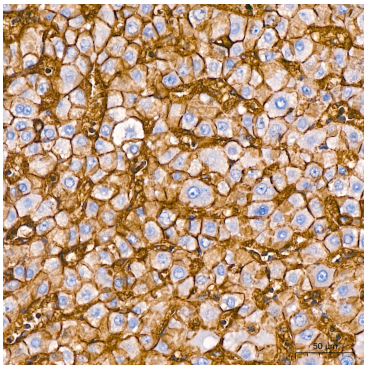
Immunohistochemistry analysis of Na+/K+-ATPase in paraffin-embedded human thyroid cancer using Na+/K+-ATPase Rabbit mAb (A11683) at dilution of 1:400 (40x lens).Perform high pressure antigen retrieval with 10 mM citrate buffer pH 6.0 before commencing with IHC staining protocol.



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.



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.