



Rabbit Anti-ATPase Na⁺/ K⁺ beta 2 antibody

SL1152R

Product Name:	ATPase Na ⁺ / K ⁺ beta 2
Chinese Name:	钠钾ATP酶Channel protein抗体
Alias:	adhesion molecule on glia; Na ⁺ K ⁺ ATPase; AMOG; AT1B2; AT1B2_HUMAN; ATP1B2; ATPase Na ⁺ /K ⁺ transporting beta 2 polypeptide; ATPB2; ATPB2S; MGC93648; Na ⁺ /K ⁺ -ATPase beta 2 subunit; Na, K ATPase beta 2 polypeptide; RATATPB2S; sodium potassium ATPase subunit beta 2 (non-catalytic); sodium pump subunit beta 2; sodium/potassium dependent ATPase beta 2 subunit; Sodium/potassium dependent ATPase subunit beta 2; sodium/potassium transporting ATPase beta 2 chain; sodium/potassium transporting ATPase subunit beta 2; Sodium/potassium-dependent ATPase subunit beta-2; Sodium/potassium-transporting ATPase subunit beta-2.
Organism Species:	Rabbit
Clonality:	Polyclonal
React Species:	Human,Mouse,Rat,Pig,Cow,Horse,Rabbit,Guinea Pig,
Applications:	WB=1:500-2000ELISA=1:500-1000IHC-P=1:400-800IHC-F=1:400-800ICC=1:100-500IF=1:100-500 (Paraffin sections need antigen repair) not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Molecular weight:	33kDa
Cellular localization:	The cell membrane
Form:	Lyophilized or Liquid
Concentration:	1mg/ml
immunogen:	KLH conjugated synthetic peptide derived from human ATP1b2:201-290/290<Extracellular>
Isotype:	IgG
Purification:	affinity purified by Protein A
Storage Buffer:	0.01M TBS(pH7.4) with 1% BSA, 0.03% Proclin300 and 50% Glycerol.
Storage:	Store at -20 °C for one year. Avoid repeated freeze/thaw cycles. The lyophilized antibody is stable at room temperature for at least one month and for greater than a year when kept at -20°C. When reconstituted in sterile pH 7.4 0.01M PBS or diluent of antibody the antibody is stable for at least two weeks at 2-4 °C.

PubMed:[PubMed](#)

The protein encoded by this gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPases beta chain proteins, 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 beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. This gene encodes a beta 2 subunit. [provided by RefSeq, Jul 2008]

Function:

This is the non-catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na(+) and K(+) ions across the plasma membrane. The exact function of the beta-2 subunit is not known.

Subunit:

Composed of three subunits: alpha (catalytic), beta and gamma.

Subcellular Location:

Membrane; Single-pass type II membrane protein.

Similarity:

Belongs to the X(+)/potassium ATPases subunit beta family.

SWISS:

P14415

Gene ID:

482

Database links:

[Entrez Gene: 482](#) Human

[Omim: 182331](#) Human

[SwissProt: P14415](#) Human

[Unigene: 643540](#) Human

Important Note:

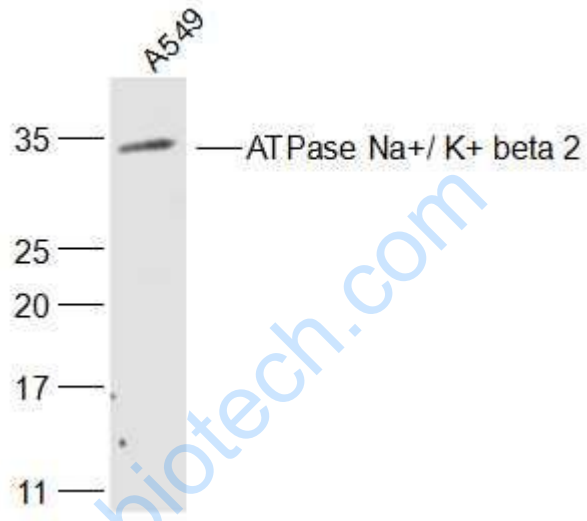
This product as supplied is intended for research use only, not for use in human,

Product Detail:

therapeutic or diagnostic applications.

Channel protein (Channel Protein)

钠钾ATP酶是位于The cell membrane上的一种glycoprotein,与ATP的分解和细胞内外钠、钾离子的转运密切相关,哺乳动物各种组织细胞的钠钾ATP酶的immunology特性基本相同。



Picture:

Sample:

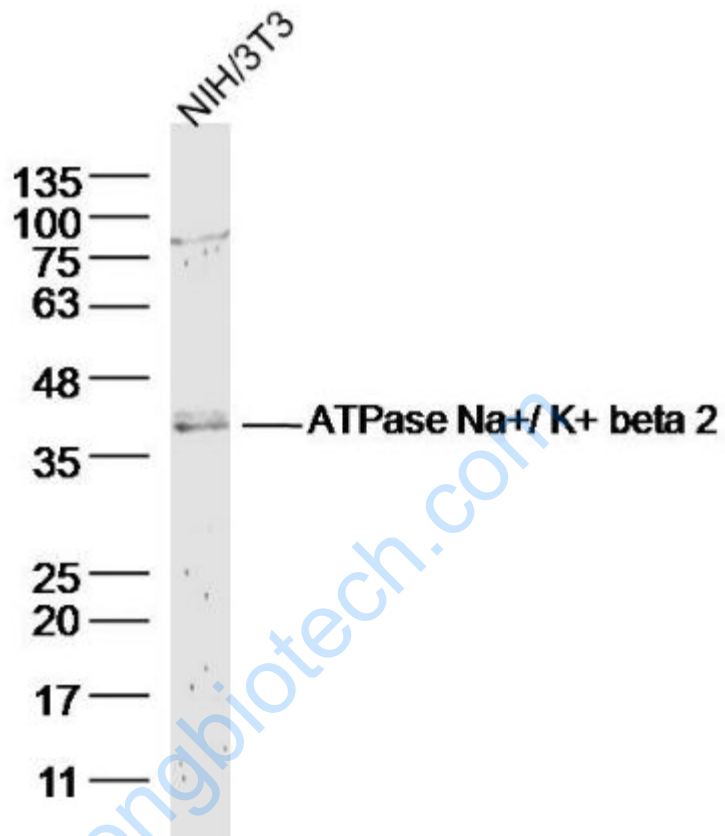
A549(Human) Cell Lysate at 30 ug

Primary: Anti-ATPase Na+/K+ beta 2 (SL1152R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD

Observed band size: 33 kD



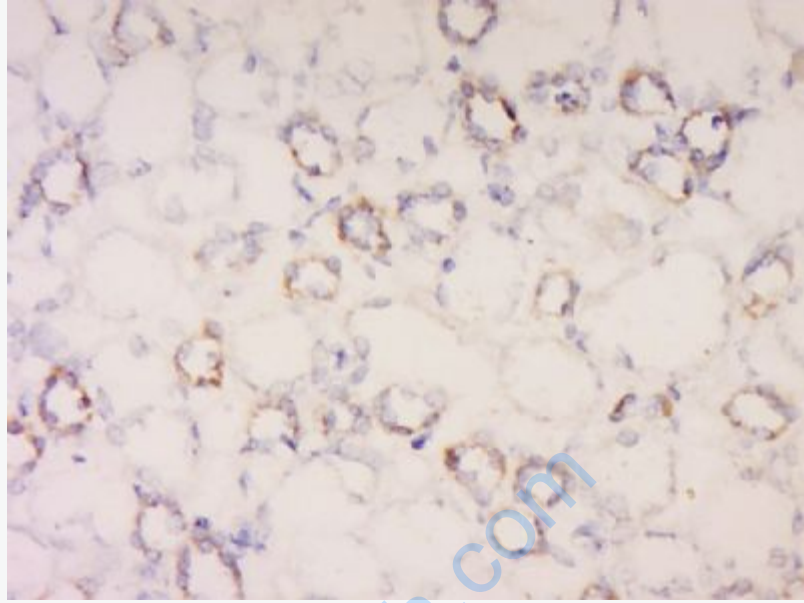
Sample: NIH/3T3(mouse) Cell Lysate at 40 ug

Primary: Anti-ATPaseNa⁺/K⁺ beta2 (SL1152R) at 1/300 dilution

Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution

Predicted band size: 33 kD

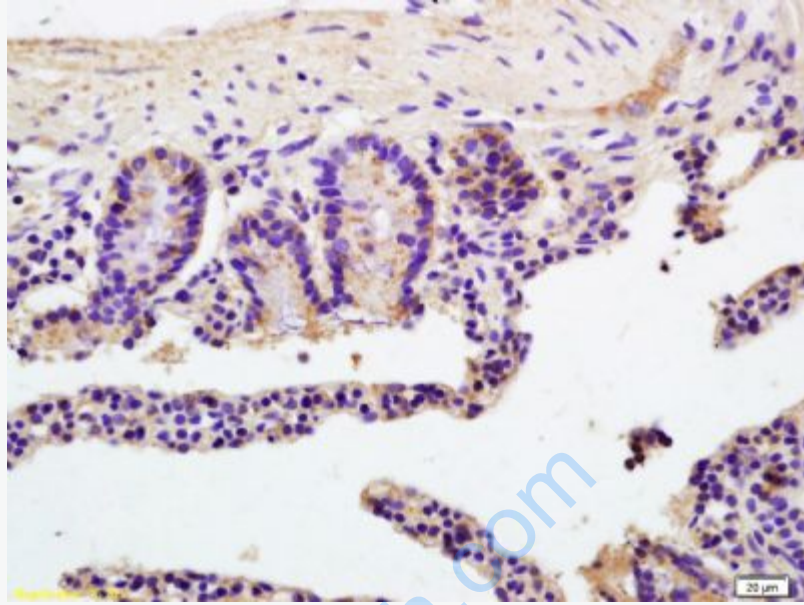
Observed band size: 33 kD



Tissue/cell: human kidney tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-AMOG Polyclonal Antibody, Unconjugated(SL1152R) 1:500, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining



Tissue/cell: mouse colon tissue; 4% Paraformaldehyde-fixed and paraffin-embedded;

Antigen retrieval: citrate buffer (0.01M, pH 6.0), Boiling bathing for 15min; Block endogenous peroxidase by 3% Hydrogen peroxide for 30min; Blocking buffer (normal goat serum,C-0005) at 37°C for 20 min;

Incubation: Anti-ATP1b2/Na+K+ATPase Polyclonal Antibody,

Unconjugated(SL1152R) 1:200, overnight at 4°C, followed by conjugation to the secondary antibody(SP-0023) and DAB(C-0010) staining