SunLong Biotech Co.,LTD
Tel: 0086-571-56623320 Fax:0086-571-56623318
E-mail:sales@sunlongbiotech.com
www.sunlongbiotech.com

[Primary Antibody]

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

Catalog Number: SL1152R

FOR RESEARCH USE ONLY

[DATASHEET]

Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	ATPase Na+/ K+ beta 2
Immunogen:	KLH conjugated synthetic peptide derived from human ATP1b2: 201-290/290 <Extracellular>
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4°C. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Mouse,Rat(predicted:Human)
Predicted MW.:	33kDa
Subcellular Location:	The cell membrane
Background:	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

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	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. **Database links:** **Entrez Gene:** 482 Human Omim: 182331 Human **SwissProt:** P14415 Human **Unigene:** 643540 Human Channel protein（Channel Protein） Na+/K+ ATPase is a glycoprotein located on The cell membrane and is closely related to the decomposition of ATP and the transport of sodium and potassium ions across the cell membrane. The immunology characteristics of Na+/K+ ATPase in various mammalian tissue cells are basically the same.

[VALIDATION IMAGES]

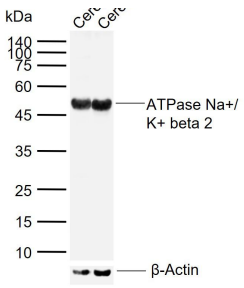


Figure 1. Sample: Lane 1: Mouse Cerebrum tissue lysates Lane 2: Rat Cerebrum tissue lysates Primary: Anti- ATPase Na+/ K+ beta 2 (SL1152R) at 1/500 dilution Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution Predicted band size: 33 kDa Observed band size: 50 kDa

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