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

[Primary Antibody]

Rabbit Anti-phospho-ATP1A1 (Tyr260) antibody

Catalog Number: SL15967R

FOR RESEARCH USE ONLY

[DATASHEET]

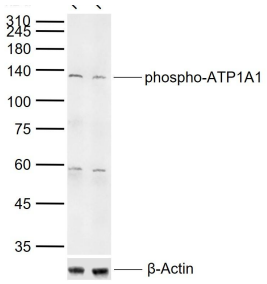
Host:	Rabbit
Isotype:	IgG
Clonality:	Polyclonal
Target:	phospho-ATP1A1 (Tyr260)
Immunogen:	KLH conjugated synthesised phosphopeptide derived from human alpha 1 Sodium Potassium ATPase around the phosphorylation site of Tyr260: V(p-Y)TG
Purification:	affinity purified by Protein A
Concentration:	1mg/ml
Storage:	0.01M TBS (pH7.4) with 1% BSA, 0.02% Proclin300 and 50% Glycerol. Shipped at 4℃. Store at -20 °C for one year. Avoid repeated freeze/thaw cycles.
Applications:	WB=1:500-2000 （Paraffin sections need antigen repair） not yet tested in other applications. optimal dilutions/concentrations should be determined by the end user.
Reactivity:	Human(predicted:Mouse,Rat,Dog,Pig,Cow,Horse,Sheep)
Predicted MW.:	113kDa
Subcellular Location:	The cell membrane
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. [provided by RefSeq, May2009]. **Function:** This is the catalytic component of the active enzyme, which

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.

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

	catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients. **Subcellular Location:** Cell membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV. **Post-translational modifications:** Phosphorylation on Tyr-10 modulates pumping activity. **Similarity:** Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIC subfamily. **Database links:** **Entrez Gene:** 476 Human **Entrez Gene:** 11928 Mouse **Entrez Gene:** 397481 Pig **Entrez Gene:** 24211 Rat Omim: 182310 Human **SwissProt:** P05023 Human **SwissProt:** Q8VDN2 Mouse **SwissProt:** P06685 Rat **Unigene:** 371889 Human **Unigene:** 280103 Mouse **Unigene:** 217534 Rat **Unigene:** 2992 Rat

[VALIDATION IMAGES]



Sample:
Lane 1: Human HeLa cell lysates
Lane 2: Human HepG2 cell lysates
Primary: Anti-phospho-ATP1A1 (Tyr260) (SL15967R) at 1/1000 dilution
Secondary: IRDye800CW Goat Anti-Rabbit IgG at 1/20000 dilution
Predicted band size: 113 kDa
Observed band size: 135 kDa

Important Note: This product as supplied is intended for research use only, not for use in human, therapeutic or diagnostic applications.