



ELK Biotechnology

# Sodium Potassium ATPase alpha-1 (Phospho-Tyr260) Antibody

Cat No.:ES8616

For research use only

## Overview

<b>Product Name</b>	Sodium Potassium ATPase alpha-1 (Phospho-Tyr260) Antibody
<b>Host species</b>	Rabbit
<b>Applications</b>	WB;ELISA;IHC
<b>Species Cross-Reactivity</b>	Human;Rat;Mouse
<b>Recommended dilutions</b>	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000
<b>Immunogen</b>	Synthetic peptide from human protein at AA range: 230-290
<b>Specificity</b>	The antibody detects endogenous Sodium Potassium ATPase alpha-1 when Phospho occurs at Tyr260)
<b>Formulation</b>	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
<b>Storage</b>	Store at -20°C. Avoid repeated freeze-thaw cycles.
<b>Protein Name</b>	Sodium/potassium-transporting ATPase subunit alpha-1 (Na <sup>+</sup> )/K <sup>+</sup> ATPase alpha-1 subunit) (EC 3.6.3.9) (Sodium pump subunit alpha-1)
<b>Gene Name</b>	ATP1A1
<b>Cellular localization</b>	Basolateral cell membrane ; Multi-pass membrane protein . Cell membrane, sarcolemma ; Multi-pass membrane protein . Cell projection, axon . Melanosome . Identified by mass spectrometry in melanosome fractions from stage I to stage IV. .
<b>Purification</b>	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
<b>Clonality</b>	Polyclonal
<b>Concentration</b>	1 mg/ml
<b>Observed band</b>	115kD
<b>Human Gene ID</b>	476
<b>Human Swiss-Prot Number</b>	P05023
<b>Alternative Names</b>	Sodium/potassium-transporting ATPase subunit



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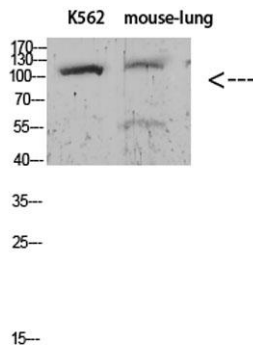
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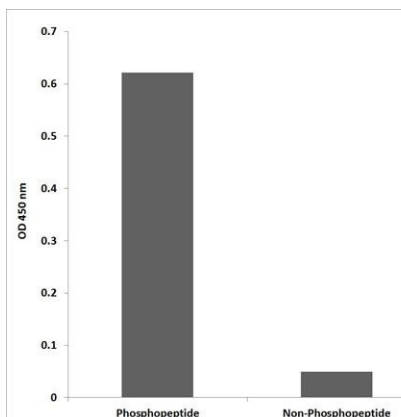


## Background

alpha-1 (Na<sup>+</sup>)/K<sup>+</sup> ATPase alpha-1 subunit) (EC 3.6.3.9) (Sodium pump subunit alpha-1)  
The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na<sup>+</sup>/K<sup>+</sup> -ATPases. Na<sup>+</sup>/K<sup>+</sup> -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<sup>+</sup>/K<sup>+</sup> -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, May 2009],

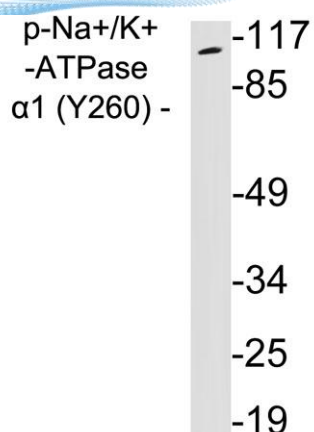


Western blot analysis of KB Hela lysate, antibody was diluted at 1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000



Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Na<sup>+</sup>/K<sup>+</sup>-ATPase  $\alpha$ 1 (Phospho-Tyr260) Antibody





Western blot analysis of lysates from 293 cells treated with PMA, using phospho-Na<sup>+</sup>/K<sup>+</sup>-ATPase α1 (Phospho-Tyr260) antibody.

Immunohistochemical analysis of paraffin-embedded human tonsil. 1, Antibody was diluted at 1:200(4° overnight). 2, Tris-EDTA,pH9.0 was used for antigen retrieval. 3,Secondary antibody was diluted at 1:200(room temperature, 45min).

