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Na+/K+-ATPase α1 (phospho Ser16) rabbit pAb

Cat No.:ES6359

For research use only

Overview

Product Name	Na+/K+-ATPase α1 (phospho Ser16) rabbit pAb
Host species	Rabbit
Applications	WB;IHC;IF;ELISA
Species Cross-Reactivity	Human;Mouse;Rat
Recommended dilutions	Western Blot: 1/500 - 1/2000. Immunohistochemistry: 1/100 - 1/300. ELISA: 1/5000. Not yet tested in other applications.
Immunogen	The antiserum was produced against synthesized peptide derived from human ATPase around the phosphorylation site of Ser16. AA range:5-54
Specificity	Phospho-Na+/K+-ATPase α1 (S16) Polyclonal Antibody detects endogenous levels of Na+/K+-ATPase α1 protein only when phosphorylated at S16.
Formulation	Liquid in PBS containing 50% glycerol, 0.5% BSA and 0.02% sodium azide.
Storage	Store at -20°C. Avoid repeated freeze-thaw cycles.
Protein Name	Sodium/potassium-transporting ATPase subunit alpha-1
Gene Name	ATP1A1
Cellular localization	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. .
Purification	The antibody was affinity-purified from rabbit antiserum by affinity-chromatography using epitope-specific immunogen.
Clonality	Polyclonal
Concentration	1 mg/ml
Observed band	112kD
Human Gene ID	476

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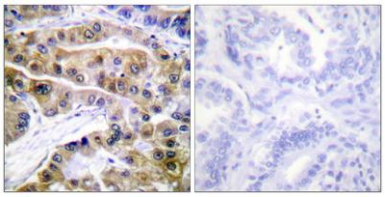
Human Swiss-Prot Number	P05023
Alternative Names	ATP1A1; Sodium/potassium-transporting ATPase subunit alpha-1; Na(+)/K(+) ATPase alpha-1 subunit; Sodium pump subunit alpha-1
Background	The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na+/K+ -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, May 2009],



Immunohistochemistry analysis of paraffin-embedded human lung carcinoma, using ATPase (Phospho-Ser16) Antibody. The picture on the right is blocked with the phospho peptide.

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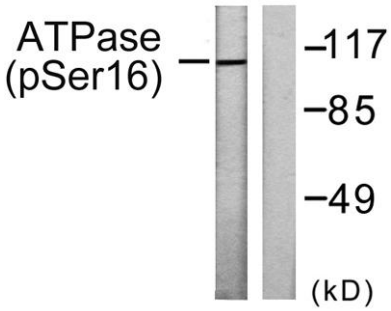

Western blot analysis of lysates from 293 cells treated with PMA 125ng/ml 30', using ATPase (Phospho-Ser16) Antibody. The lane on the right is blocked with the phospho peptide.

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