

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

Cat#: orb771491 (Manual)

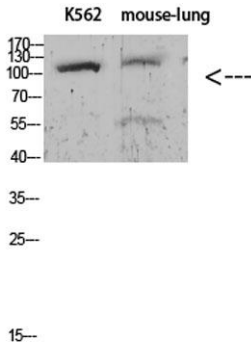
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Product Name	Sodium Potassium ATPase alpha-1 (Phospho-Tyr260) Antibody
Host species	Rabbit
Applications	WB;ELISA;IHC
Species Cross-Reactivity	Human;Rat;Mouse
Recommended dilutions	WB 1:500-2000;IHC-p 1:50-300; ELISA 2000-20000
Immunogen	Synthetic peptide from human protein at AA range: 230-290
Specificity	The antibody detects endogenous Sodium Potassium ATPase alpha-1 when Phospho occurs at Tyr260)
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 (Na ⁽⁺⁾ /K ⁽⁺⁾ ATPase alpha-1 subunit) (EC 3.6.3.9) (Sodium pump 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	115kD
Human Gene ID	476
Human Swiss-Prot Number	P05023
Alternative Names	Sodium/potassium-transporting ATPase subunit alpha-1 (Na ⁺)/K ⁺ ATPase alpha-1 subunit (EC 3.6.3.9) (Sodium pump subunit alpha-1)

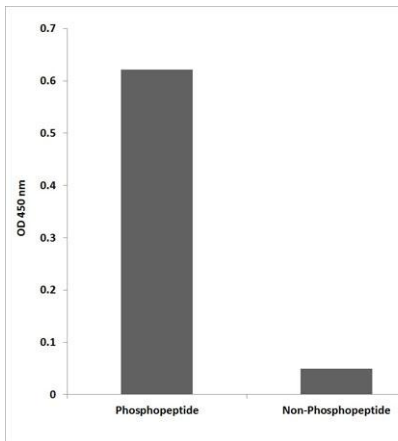
Background

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],

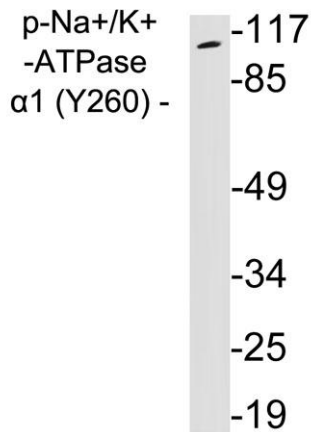


Western blot analysis of KB Hela lysate, antibody was diluted at 1000. Secondary antibody(catalog#:RS0002) was diluted at 1:20000

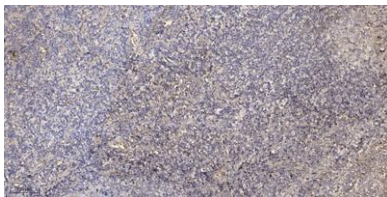
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Enzyme-Linked Immunosorbent Assay (Phospho-ELISA) for Immunogen Phosphopeptide (Phospho-left) and Non-Phosphopeptide (Phospho-right), using Na⁺/K⁺-ATPase α1 (Phospho-Tyr260) Antibody



Western blot analysis of lysates from 293 cells treated with PMA, using phospho-Na⁺/K⁺-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).