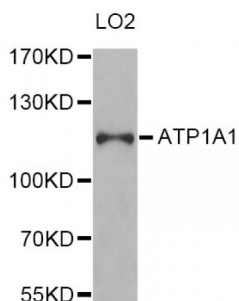


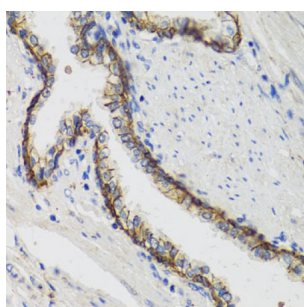
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ATPase, Na⁺/K⁺ Transporting, Alpha 1 Polypeptide (ATP1A1) Antibody

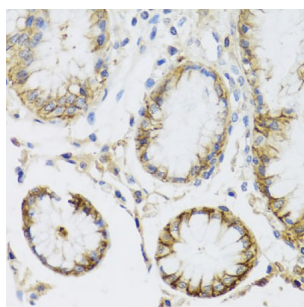
Catalogue No.: abx000792



Western blot analysis of extracts of LO2 cells, using ATP1A1 Antibody (abx000792) at 1/1000 dilution.



Immunohistochemistry of paraffin-embedded human prostate using ATP1A1 antibody (abx000792) at dilution of 1/100 (40x lens).



Immunohistochemistry of paraffin-embedded human stomach using ATP1A1 antibody (abx000792) at dilution of 1/100 (40x lens).

ATP1A1 Antibody is a Rabbit Polyclonal antibody against ATP1A1. The Na,K-ATPase is an integral membrane heterodimer belonging to the P-type ATPase family. This ion channel uses the energy derived from ATP hydrolysis to maintain membrane potential by driving sodium export and potassium import across the plasma membrane against their electrochemical gradients. It is composed of a catalytic α subunit and a β subunit (reviewed in 1). Several phosphorylation sites have been identified for the α 1 subunit. Tyr10 is phosphorylated by an as yet undetermined kinase (2), Ser16 and Ser23 are phosphorylated by PKC, and Ser943 is phosphorylated by PKA (3-5). All of these sites have been implicated in the regulation of enzyme activity in response to hormones and neurotransmitters, altering trafficking and kinetic properties of Na,K-ATPase. Altered phosphorylation in response to angiotensin II stimulates activity in the rat proximal tubule (6). Na,K-ATPase is also involved in other signal transduction pathways. Insulin regulates its localization in differentiated primary human skeletal muscle cells, and this regulation is dependent on ERK1/2 phosphorylation of the α subunit (7). Na,K-ATPase and Src form a signaling receptor complex that affects regulation of Src kinase activity and, subsequently, its downstream effectors (8,9).

Target: ATP1A1

Reactivity: Human

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Host: Rabbit

Clonality: Polyclonal

Tested Applications: WB, IHC

Recommended dilutions: WB: 1/500 - 1/1000, IHC: 1/50 - 1/200. Optimal dilutions/concentrations should be determined by the end user.

Immunogen: Recombinant fusion protein of human ATP1A1.

Purification: Affinity purified.

Form: Liquid

Isotype: IgG

Conjugation: Unconjugated

Storage: Aliquot and store at -20 °C. Avoid repeated freeze/thaw cycles.

Molecular Weight: Calculated MW: 74 kDa/109 kDa/112 kDa/113 kDa
Observed MW: 113 kDa

Swiss Prot: [P05023](#)

GeneID: [476](#)

Gene Symbol: ATP1A1

Concentration: > 1 mg/ml

Buffer: PBS, pH 7.3, 0.02% sodium azide, 50% glycerol.

Note: This product is for research use only.