Recombinant Na+/K+ ATPase alpha-1 Monoclonal Antibody

catalog number: **AN301712L**

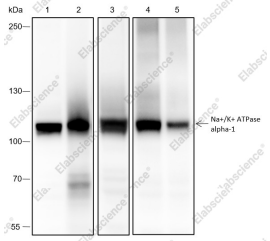
Note: *Centrifuge before opening to ensure complete recovery of vial contents.*

Description

Reactivity	Human;Mouse;Rat
Immunogen	A synthetic peptide of human Sodium Potassium ATPase
Host	Rabbit
Isotype	Rabbit IgG
Clone	C111334
Purification	Protein A purified
Buffer	PBS, 50% glycerol, 0.05% Proclin 300, 0.05% protein protectant.

Applications	Recommended Dilution
WB	1:5000-1:50000
IHC-P	1:50-1:100
ICC/IF	1:200-1:500
FCM	1:20-1:100

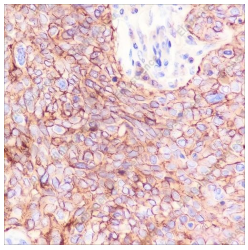
Data



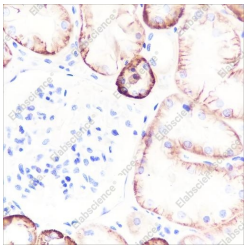
Western Blot with Na+/K+ ATPase alpha-1 Monoclonal Antibody at dilution of 1:2000. Lane 1: HeLa, Lane 2: RAW264.7, Lane 3: C6, Lane 4: Mouse brain, Lane 5: Rat brain

Observed-MW:100 kDa

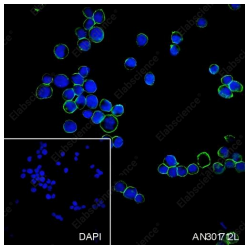
Calculated-MW:113 kDa



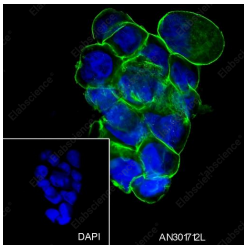
Immunohistochemistry of paraffin-embedded Human cervical cancer using Na+/K+ ATPase alpha-1 Monoclonal Antibody at dilution of 1:1000.



Immunohistochemistry of paraffin-embedded Human kidney using Na+/K+ ATPase alpha-1 Monoclonal Antibody at dilution of 1:1000.



Immunofluorescent analysis of (100% Ice-cold methanol) fixed Jurkat cells using anti-Na+/K+ ATPase alpha-1 Monoclonal Antibody at dilution of 1:50.



Immunofluorescent analysis of (100% Ice-cold methanol) fixed LNCaP cells using anti-Na+/K+ ATPase alpha-1 Monoclonal Antibody at dilution of 1:50.

Preparation & Storage

Storage	Store at -20°C Valid for 12 months. Avoid freeze / thaw cycles.
Shipping	Ice bag

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. The catalytic subunit of Na+/K+ -ATPase is encoded by multiple genes. This is the catalytic component of the active enzyme, which 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.

Toll-free: 1-888-852-8623
Tel: 1-832-243-6086
Fax: 1-832-243-6017
Web: www.elabscience.com
Email: techsupport@elabscience.com