



Rabbit Anti-ATPase monoclonal antibody, clone TU1644 (CABT-L684)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Target	Sodium Potassium ATPase
Immunogen	Recombinant protein
Isotype	IgG
Source/Host	Rabbit
Species Reactivity	Human, Mouse, Rat
Clone	TU1644
Purification	Protein A purified.
Conjugate	Unconjugated
Applications	WB, ICC/IF, IHC, FC
Molecular Weight	100 kDa
Cellular Localization	Cell membrane, Melanosome.
Positive Control	A549, MCF-7, Hela, HepG2, human liver tissue, mouse liver tissue, mouse kidney tissue, human kidney tissue.
Format	Liquid
Size	100 µl
Buffer	1×TBS (pH7.4), 1% BSA, 40% Glycerol.

Preservative	0.05% Sodium Azide
Storage	Store at +4°C after thawing. Aliquot store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.

BACKGROUND

Introduction	The ubiquitously expressed sodium/potassium-ATPase (Na/K-ATPase) exists as an oligomeric plasma membrane complex that couples the hydrolysis of one molecule of ATP to the importation of three Na ions and two K ions against their respective electrochemical gradients. As a member of the P-type family of ion motives, Na/K-ATPase plays a critical role in maintaining cellular volume, resting membrane potential and Na⁺-coupled solute transport. Multiple isoforms of three subunits, α, β and γ, comprise the Na/K-ATPase oligomer. The α subunit contains the binding sites for ATP and the cations; the glycosylated β subunit ensures correct folding and membrane insertion of the α subunits. The small γ subunit co-localizes with the α subunit in nephron segments, where it increases the affinity of Na/K-ATPase for ATP. The β subunit, but not the γ subunit, is essential for normal activity of Na/K-ATPase.
Keywords	ATPase Na⁺/K⁺ transporting alpha;adenosinetriphosphatase;AT1A1_HUMAN;ATP1A1;ATP1A4;ATP1AL2;ATP1B;ATP1B1;ATPase Na⁺/K⁺ transporting alpha 1 polypeptide;ATPase Na⁺/K⁺ transporting alpha 4 polypeptide;ATPase Na⁺/K⁺ transporting beta 1 polypeptide;ATPase, Na⁺/K⁺ transporting, alpha polypeptide-like 2;ATPase, Na⁺/K⁺ transporting, beta 1 polypeptide;Beta 1-subunit of Na(+),K(+)-ATPase;Na(+)/K(+) ATPase alpha-1 subunit;Na(+)/K(+) ATPase alpha-4 subunit;Na⁺, K⁺ ATPase alpha subunit;Na⁺/K⁺ ATPase 1;Na⁺/K⁺ ATPase 4;Na⁺/K⁺ ATPase, alpha-D polypeptide;Na, K-ATPase beta-1 polypeptide;Na, K-ATPase, alpha-A catalytic polypeptide;Na,K-ATPase catalytic subunit alpha-A protein;Na,K-ATPase subunit alpha-C;polypeptide-like 2;Sodium pump 1;sodium pump 4;Sodium pump subunit alpha-1;sodium pump subunit alpha-4;sodium pump subunit beta-1;sodium-potassium ATPase catalytic subunit alpha-1;sodium-potassium ATPase catalytic subunit alpha-4;sodium-potassium ATPase subunit beta 1 (non-catalytic);sodium-potassium ATPase, alpha 4 polypeptide;sodium-potassium-ATPase, alpha 1 polypeptide;Sodium/potassium transporting ATPase alpha 1 chain;Sodium/potassium transporting ATPase subunit beta 1;sodium/potassium-dependent ATPase beta-1 subunit;sodium/potassium-transporting ATPase alpha-4 chain;sodium/potassium-transporting ATPase beta-1 chain;Sodium/potassium-transporting ATPase subunit alpha-1;sodium/potassium-transporting ATPase subunit alpha-4 antibody

GENE INFORMATION

Entrez Gene ID	7430
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