

Rabbit ATP1alpha1/Na+K+ ATPase1 Polyclonal Antibody | anti-Atp1a1 antibody

ATP1alpha1/Na+K+ ATPase1 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA322191	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

ATP1alpha1/Na+K+ ATPase1; Polyclonal Antibody; ATP1alpha1/Na+K+ ATPase1 Antibody; 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; 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; K-ATPase; alpha-A catalytic polypeptide; K-ATPase catalytic subunit alpha-A protein; 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; A1A1; AT1A1; Atpa-1; ATPase Na+/K+ transporting subunit alpha 1; BC010319; EC 3.6.3.9; MGC3285; MGC38419; MGC51750; Na K ATPase alpha A catalytic polypeptide; Na K ATPase catalytic subunit alpha A protein; Na(+)/K(+) ATPase 1; Na+/K+ ATPase alpha 1 subunit; K ATPase alpha 1 subunit; Nkaa1b; Sodium potassium ATPase alpha 1 polypeptide; anti-Atp1a1 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATP1alpha1/Na+K+ ATPase1 antibody detects endogenous levels of total ATP1alpha1/Na+K+ ATPase1
Purity/Purification	The antiserum was purified by peptide affinity chromatography using SulfoLink Coupling Resin.
Form/Format	Liquid Phosphate buffered saline, pH 7.4, 150mM NaCl, 0.02% sodium azide and 50% glycerol.
Concentration	1mg/ml (varies by lot)
Sequence Length	1023
Applicable Applications for anti-Atp1a1 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATP1alpha1/Na+K+ ATPase1
Conjugation	Unconjugated
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



WB (Western Blot)
Western blot analysis of ATP1alpha1/Na+K+ ATPase1 expression in HeLa whole cell lysates. The lane on the left is treated with the antigen-specific peptide.



IF (Immunofluorescence)
AAA322191 staining MCF-7 cells by ICC/IF. Cells were fixed with PFA and permeabilized in 0.1% saponin prior to blocking in 10% serum for 45 minutes at 37 degree C. The primary antibody was diluted 1/400 and incubated with the sample for 1 hour at 37 degree C. A Alexa Fluor 594 conjugated goat polyclonal to rabbit IgG (H+L), diluted 1/600 was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-Atp1a1 antibody	ATP1A1 the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of Na and K ions across the plasma membrane. This action creates the electrochemical gradient of Na and K, providing the energy for active transport of various nutrients.
References	Li X, Yan XX, Li HL, Li RQ; Journal: Respir Physiol Neurobiol. Endogenous acetylcholine increases alveolar epithelial fluid transport via activation of alveolar epithelial Na, K-ATPase in mice. Lv Y, Bai S, Zhang H, Zhang H, Meng J, Li L, Xu Y; Journal: Br J Pharmacol. Aldosterone down-regulates the slowly activated delayed rectifier potassium current in adult guinea pig cardiomyocytes.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6978543
NCBI GeneID	24211
NCBI Accession #	NP_036636.1
NCBI GenBank Nucleotide #	NM_012504.1
UniProt Accession #	P06685; Q64609
Molecular Weight	Observed: 113 kDa
NCBI Official Full Name	sodium/potassium-transporting ATPase subunit alpha-1
NCBI Official Synonym Full Names	ATPase Na+/K+ transporting subunit alpha 1
NCBI Official Symbol	Atp1a1
NCBI Official Synonym Symbols	Nkaa1b
NCBI Protein Information	sodium/potassium-transporting ATPase subunit alpha-1
UniProt Protein Name	Sodium/potassium-transporting ATPase subunit alpha-1
UniProt Gene Name	Atp1a1
UniProt Synonym Gene Names	Na(+)/K(+) ATPase alpha-1 subunit

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.