

Rabbit ATP1 alpha1/Na+K+ ATPase1 Polyclonal Antibody | anti-Atp1a1 antibody

Phospho-ATP1 alpha1/Na+K+ ATPase1 (Ser23) Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA321489	Rabbit	Human, Mouse, Rat	ELISA, Immunocytochemistry, Immunofluorescence, Western Blot

PRODUCT SYNONYMS

ATP1 alpha1/Na+K+ ATPase1; Polyclonal Antibody; Phospho-ATP1 alpha1/Na+K+ ATPase1 (Ser23) 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	Phospho-ATP1 alpha1/Na+K+ ATPase1 (Ser23) antibody detects endogenous levels of ATP1 alpha1/Na+K+ ATPase1 only when phosphorylated at Serine 23
Purity/Purification	From purified rabbit serum by affinity purification via sequential chromatography on phospho- and non-phospho-peptide affinity columns.
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 ATP1 alpha1/Na+K+ ATPase1 around the phosphorylation site of Serine 23
Conjugation	Unconjugated
Epitope	Phospho Ser23
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES



IF (Immunofluorescence)

AAA321489 staining PC-12 cells treated with TPA 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.



WB (Western Blot)

Western blot analysis of ATP1 alpha1/Na+K+ ATPase1 phosphorylation expression in Rat brain tissue lysates, The lane on the left is treated with the antigen-specific peptide.

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.
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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.

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Online datasheet: <https://stage.aaabiotech.com/polyclonal/atp1-alpha1-nak-atpase1-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/321489>