Rabbit ATP1A2 Polyclonal Antibody | anti-ATP1A2 antibody

ATP1A2 Antibody

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA325174	**Rabbit**	**Human, Mouse, Rat**	**ELISA, Immunocytochemistry, Immunofluorescence, Western Blot**

PRODUCT SYNONYMS

ATP1A2; Polyclonal Antibody; ATP1A2 Antibody; AT1A2_HUMAN; Atp1a2; FHM2; KIAA0778; MHP2; Na(+)/K(+) ATPase alpha-2 subunit; Na+/K+ ATPase alpha 2 subunit; Sodium potassium ATPase; Sodium pump subunit alpha 2; Sodium pump subunit alpha-2; Sodium/potassium transporting ATPase alpha 2 chain; Sodium/potassium transporting ATPase subunit alpha 2; Sodium/potassium-transporting ATPase subunit alpha-2; anti-ATP1A2 antibody

PRODUCT SPECIFICATIONS

Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Isotype	IgG
Specificity	ATP1A2 antibody detects endogenous levels of total ATP1A2
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	1020
Applicable Applications for anti-ATP1A2 antibody	ELISA, ICC (Immunocytochemistry), IF (Immunofluorescence), WB (Western Blot)
Immunogen	A synthesized peptide derived from human ATP1A2, corresponding to a region within N-terminal amino acids.
Conjugation	Unconjugated
Important	For western blot, incubate membrane with diluted primary Ab in 5% w/v milk , 1X TBS, 0.1% Tween®20 at 4°C with gentle shaking, overnight.
Preparation and Storage	Store at -20 degree C. Stable for 12 months from date of receipt.

IMAGES

IHC (Immunohistochemisry)
AAA325174 at 1/100 staining Rat stomach tissue by IHC-P. The sample was formaldehyde fixed and a heat mediated antigen retrieval step in citrate buffer was performed. The sample was then blocked and incubated with the primary antibody at 4°C overnight. An HRP conjugated anti-Rabbit antibody was used as the secondary antibody.

WB (Western Blot)
Western blot analysis of extracts from HepG2 cells using ATP1A2 antibody.

IF (Immunofluorescence)
AAA325174 staining Hela cells by IF/ICC. The sample were fixed with PFA and permeabilized in 0.1% Triton X-100, then blocked in 10% serum for 45 minutes at 25 degree C. The primary antibody was diluted at 1/200 and incubated with the sample for 1 hour at 37 degree C. An Alexa Fluor 594 conjugated goat anti-rabbit IgG (H+L) antibody, diluted at 1/600, was used as secondary antibody.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP1A2 antibody	Function: 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, providing the energy for active transport of various nutrients. Subunit Structure: The sodium/potassium-transporting ATPase is composed of a catalytic alpha subunit, an auxiliary non-catalytic beta subunit and an additional regulatory subunit. Interacts with regulatory subunit FXYD1. Similarity: Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIC subfamily.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502271
NCBI GeneID	477
NCBI Accession #	NP_000693.1
NCBI GenBank Nucleotide #	NM_000702.3
UniProt Accession #	P50993; Q07059; Q5JW74; Q86UZ5; Q9UQ25; D3DVE4
Molecular Weight	112 kD
NCBI Official Full Name	sodium/potassium-transporting ATPase subunit alpha-2
NCBI Official Synonym Full Names	ATPase Na+/K+ transporting subunit alpha 2
NCBI Official Symbol	ATP1A2
NCBI Official Synonym Symbols	FHM2; MHP2
NCBI Protein Information	sodium/potassium-transporting ATPase subunit alpha-2
UniProt Protein Name	Sodium/potassium-transporting ATPase subunit alpha-2
UniProt Gene Name	**ATP1A2**
UniProt Synonym Gene Names	KIAA0778; Na(+)/K(+) ATPase alpha-2 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/atp1a2-antibody-immunocytochemistry-immunofluorescence-western-blot-elisa/325174