

Rabbit ATP1A2 Polyclonal Antibody | anti-ATP1A2 antibody

Anti-ATP1A2 Antibody Picoband

CATALOG #	HOST	REACTIVITY	APPLICATIONS
AAA127097	Rabbit	Human, Mouse, Rat	ELISA, Immunohistochemistry, Western Blot

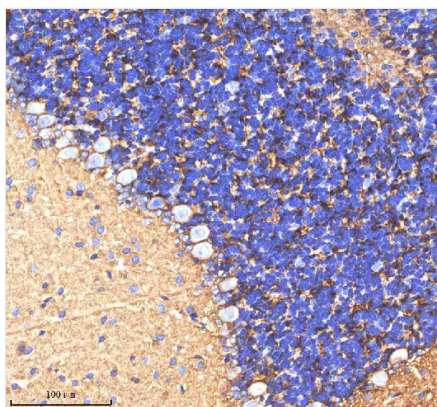
PRODUCT SYNONYMS

ATP1A2; Polyclonal Antibody; Anti-ATP1A2 Antibody Picoband; anti-ATP1A2 antibody

PRODUCT SPECIFICATIONS

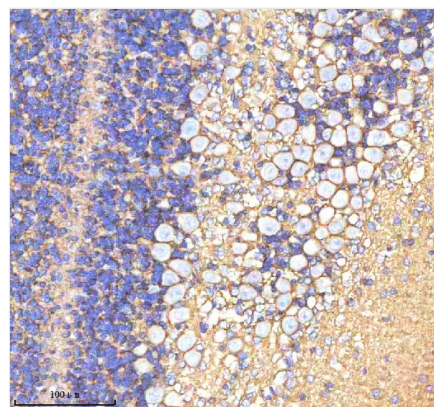
Host	Rabbit
Reactivity	Human, Mouse, Rat
Clonality	Polyclonal
Purity/Purification	Immunogen affinity purified.
Form/Format	Lyophilized. Each vial contains 4 mg Trehalose, 0.9 mg NaCl, 0.2 mg Na ₂ HPO ₄ .
Applicable Applications for anti-ATP1A2 antibody	ELISA, IHC (Immunohistochemistry), WB (Western Blot)
Immunogen	E coli-derived human ATP1A2 recombinant protein (Position: L46-L580). Human ATP1A2 shares 99.1% amino acid (aa) sequence identity with mouse and rat ATP1A2.
Reconstitution	Adding 0.2 ml of distilled water will yield a concentration of 500ug/ml.
Preparation and Storage	At -20 degree C for one year from date of receipt. After reconstitution, at 4 degree C for one month. It can also be aliquotted and stored frozen at -20 degree C for six months.Avoid repeated freezing and thawing.

IMAGES



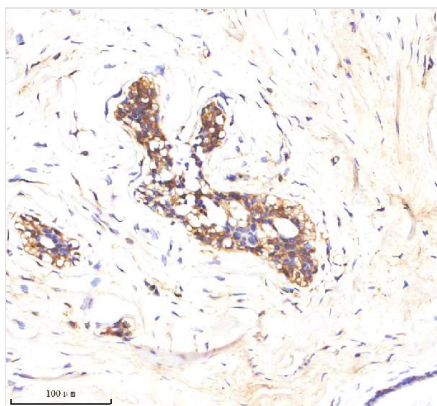
IHC (Immunohistochemistry)

Figure 4. IHC analysis of ATP1A2 using anti-ATP1A2 antibody (AAA127097).ATP1A2 was detected in a paraffin-embedded section of rat cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-ATP1A2 Antibody (AAA127097) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



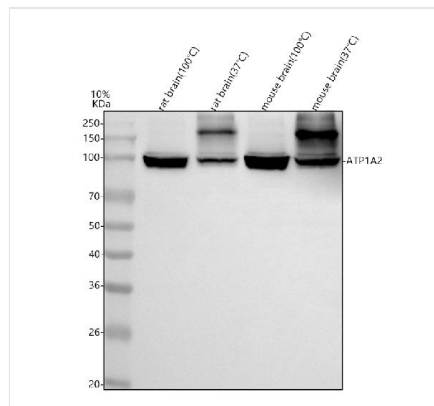
IHC (Immunohistochemistry)

Figure 3. IHC analysis of ATP1A2 using anti-ATP1A2 antibody (AAA127097).ATP1A2 was detected in a paraffin-embedded section of mouse cerebellum tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-ATP1A2 Antibody (AAA127097) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



IHC (Immunohistochemistry)

Figure 2. IHC analysis of ATP1A2 using anti-ATP1A2 antibody (AAA127097). ATP1A2 was detected in a paraffin-embedded section of human breast cancer tissue. Heat mediated antigen retrieval was performed in EDTA buffer (pH 8.0, epitope retrieval solution). The tissue section was blocked with 10% goat serum. The tissue section was then incubated with 2ug/ml rabbit anti-ATP1A2 Antibody (AAA127097) overnight at 4 degree C. Peroxidase Conjugated Goat Anti-rabbit IgG was used as secondary antibody and incubated for 30 minutes at 37 degree C. The tissue section was developed using HRP Conjugated Rabbit IgG Super Vision Assay Kit with DAB as the chromogen.



WB (Western Blot)

Figure 1. Western blot analysis of ATP1A2 using anti-ATP1A2 antibody (AAA127097). Electrophoresis was performed on a 5-20% SDS-PAGE gel at 70V (Stacking gel)/90V (Resolving gel) for 2-3 hours. The sample well of each lane was loaded with 30 ug of sample under reducing conditions. Lane 1: rat brain tissue lysates, (100 degree C boiled for 5 minutes) Lane 2: rat brain tissue lysates, (37 degree C incubated for 10 minutes) Lane 3: mouse brain tissue lysates, (100 degree C boiled for 5 minutes) Lane 4: mouse brain tissue lysates, (37 degree C incubated for 10 minutes) After electrophoresis, proteins were transferred to a nitrocellulose membrane at 150 mA for 50-90 minutes. Blocked the membrane with 5% non-fat milk/TBS for 1.5 hour at RT. The membrane was incubated with rabbit anti-ATP1A2 antigen affinity purified polyclonal antibody (#AAA127097) at 0.5ug/mL overnight at 4 degree C, then washed with TBS-0.1% Tween 3 times with 5 minutes each and probed with a goat anti-rabbit IgG-HRP secondary antibody at a dilution of 1:5000 for 1.5 hour at RT. The signal is developed using an Enhanced Chemiluminescent detection (ECL) kit with Tanon 5200 system. A specific band was detected for ATP1A2 at approximately 112 kDa. The expected band size for ATP1A2 is at 112 kDa.

ADDITIONAL INFORMATION

Related Product Information for anti-ATP1A2 antibody	The brand Picoband indicates this is a premium antibody that guarantees superior quality, high affinity, and strong signals with minimal background in Western blot applications. Only our best-performing antibodies are designated as Picoband, ensuring unmatched performance.
Product Categories/Family for anti-ATP1A2 antibody	Primary Antibodies
References	1. Ambrosini, A., D'Onofrio, M., Grieco, G. S., Di Mambro, A., Montagna, G., Fortini, D., Nicoletti, F., Nappi, G., Sances, G., Schoenen, J., Buzzi, M. G., Santorelli, F. M., Pierelli, F. Familial basilar migraine associated with a new mutation in the ATP1A2 gene. <i>Neurology</i> 65: 1826-1828, 2005. 2. Ashmore, L. J., Hrizo, S. L., Paul, S. M., Van Voorhies, W. A., Beitel, G. J., Palladino, M. J. Novel mutations affecting the Na, K ATPase alpha model complex neurological diseases and implicate the sodium pump in increased longevity. <i>Hum. Genet.</i> 126: 431-447, 2009. 3. Bassi, M. T., Bresolin, N., Tonelli, A., Nazos, K., Crippa, F., Baschiroto, C., Zucca, C., Bersano, A., Dolcetta, D., Boneschi, F. M., Barone, V., Casari, G. A novel mutation in the ATP1A2 gene causes alternating hemiplegia of childhood. <i>J. Med. Genet.</i> 41: 621-628, 2004.

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	112,265 Da
NCBI Official Full Name	sodium/potassium-transporting ATPase subunit alpha-2 proprotein
NCBI Official Synonym Full Names	ATPase, Na ⁺ /K ⁺ transporting, alpha 2 polypeptide

NCBI Official Symbol	ATP1A2
NCBI Official Synonym Symbols	FHM2; MHP2
NCBI Protein Information	sodium/potassium-transporting ATPase subunit alpha-2; sodium pump subunit alpha-2; Na(+)/K(+) ATPase alpha-2 subunit; Na+/K+ ATPase, alpha-B polypeptide; Na+/K+ ATPase, alpha-A(+) catalytic polypeptide; sodium-potassium ATPase catalytic subunit alpha-2; s
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
UniProt Entry Name	AT1A2_HUMAN

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://www.aaabiotech.com/polyclonal/atp1a2-antibody-immunohistochemistry-western-blot-elisa/127097>