

[Go to Product page](#)

## Datasheet for ABIN5515377 anti-ATP1A2 antibody

### Overview

Quantity:	100 µL
Target:	ATP1A2
Reactivity:	Human, Mouse, Rat, Cow, Dog, Guinea Pig, Horse, Rabbit, Sheep, Zebrafish (Danio rerio)
Host:	Rabbit
Clonality:	Polyclonal
Conjugate:	This ATP1A2 antibody is un-conjugated
Application:	Please inquire

### Product Details

Immunogen:	The immunogen is a synthetic peptide directed towards the following sequence ISLAYEAAESDIMKRQPRNSQTDKLVNERLISMAYGQIGMIQALGGFFTY
Sequence:	ISLAYEAAES DIMKRQPRNS QTDKLVNERL ISMAYGQIGM IQALGGFFTY
Predicted Reactivity:	Cow: 93%, Dog: 93%, Guinea Pig: 100%, Horse: 100%, Human: 100%, Mouse: 100%, Rabbit: 93%, Rat: 100%, Sheep: 93%, Zebrafish: 86%
Purification:	Affinity Purified

### Target Details

Target:	ATP1A2
Alternative Name:	ATP1A2 ( <a href="#">ATP1A2 Products</a> )
Background:	The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na <sup>+</sup> /K <sup>+</sup> -ATPases. Na <sup>+</sup> /K <sup>+</sup> -ATPase is an integral membrane protein

## Target Details

responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na<sup>+</sup>/K<sup>+</sup> -ATPase is encoded by multiple genes. This gene encodes an alpha 2 subunit. Mutations in this gene result in familial basilar or hemiplegic migraines, and in a rare syndrome known as alternating hemiplegia of childhood.

Alias Symbols: FHM2, MHP2,

Protein Interaction Partner: UBC, LGR4, ZNRF2, ZNRF1, CAND1, CUL3, FBX025, TPT1,

Protein Size: 1020

Gene ID: 477

NCBI Accession: [NM\\_000702](#), [NP\\_000693](#)

UniProt: [P50993](#)

Pathways: [Thyroid Hormone Synthesis](#), [Proton Transport](#), [Ribonucleoside Biosynthetic Process](#)

## Application Details

Restrictions: For Research Use only

## Handling

Format: Liquid

Buffer: Liquid. Purified antibody supplied in 1x PBS buffer with 0.09 % (w/v) sodium azide and 2 % sucrose.

Preservative: Sodium azide

Precaution of Use: This product contains Sodium azide: a POISONOUS AND HAZARDOUS SUBSTANCE which should be handled by trained staff only.

Storage: -20 °C

Storage Comment: For short term use, store at 2-8°C up to 1 week. For long term storage, store at -20°C in small aliquots to prevent freeze-thaw cycles.