

Datasheet: VPA00519

Description:	RABBIT ANTI ATP1B1
Specificity:	ATP1B1
Format:	Purified
Product Type:	PrecisionAb Polyclonal
Isotype:	Polyclonal IgG
Quantity:	100 µl

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
Western Blotting	▪			1/1000

The PrecisionAb label is reserved for antibodies that meet the defined performance criteria within Bio-Rad's ongoing antibody validation programme. Click [here](#) to learn how we validate our PrecisionAb range. Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Further optimization may be required dependent on sample type.

Target Species	Human
Species Cross Reactivity	Reacts with: Mouse N.B. Antibody reactivity and working conditions may vary between species.
Product Form	Purified IgG - liquid.
Preparation	Rabbit polyclonal antibody purified by affinity chromatography.
Buffer Solution	Phosphate buffered saline.
Preservative Stabilisers	0.09% Sodium Azide (NaN ₃) 2% Sucrose.
Immunogen	Synthetic peptide directed towards the N terminal region of human ATP1B1
External Database Links	<p>UniProt: P05026 Related reagents</p> <p>Entrez Gene: 481 ATP1B1 Related reagents</p>
Synonyms	ATP1B

Specificity	<p>Rabbit anti Human ATP1B1 antibody recognizes ATP1B1, also known as beta 1-subunit of Na(+),K(+)-ATPase, Na, K-ATPase beta-1 polypeptide or adenosinetriphosphatase.</p> <p>The protein encoded by ATP1B1 gene belongs to the family of Na⁺/K⁺ and H⁺/K⁺ ATPase beta chain proteins, and to the subfamily of Na⁺/K⁺ -ATPases. Na⁺/K⁺ -ATPase is an integral membrane protein 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 beta subunit regulates, through assembly of alpha/beta heterodimers, the number of sodium pumps transported to the plasma membrane. The glycoprotein subunit of Na⁺/K⁺ -ATPase is encoded by multiple genes. ATP1B1 gene encodes a beta 1 subunit. Alternatively spliced transcript variants encoding different isoforms have been described, but their biological validity is not known (provided by RefSeq, Mar 2010).</p> <p>Rabbit anti Human ATP1B1 antibody detects a band of 50 kDa. The antibody has been extensively validated for western blotting using tissue and whole cell lysates.</p>
Western Blotting	Anti ATP1B1 detects a band of approximately 50 kDa in mouse brain tissue.
Storage	Store undiluted at -20°C, avoiding repeated freeze thaw cycles.
Guarantee	12 months from date of despatch
Acknowledgements	PrecisionAb is a trademark of Bio-Rad Laboratories
Health And Safety Information	Material Safety Datasheet documentation #10045 available at: Antibody (10045): https://www.bio-rad-antibodies.com/uploads/MSDS/10045.pdf
Regulatory	For research purposes only.

Related Products

Recommended Secondary Antibodies

Goat Anti Rabbit IgG (H/L) (STAR208...) [HRP](#)

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Printed on 11 Aug 2020