

## Product datasheet

# Anti-ATP1A3 antibody [EPR14137] - N-terminal ab182572

Recombinant RabMAb

★★★★★ [1 Abreviews](#) [1 References](#) [4 Images](#)

### Overview

<b>Product name</b>	Anti-ATP1A3 antibody [EPR14137] - N-terminal
<b>Description</b>	Rabbit monoclonal [EPR14137] to ATP1A3 - N-terminal
<b>Host species</b>	Rabbit
<b>Tested applications</b>	<b>Suitable for:</b> IP, WB <b>Unsuitable for:</b> ICC/IF
<b>Species reactivity</b>	<b>Reacts with:</b> Mouse, Rat, Human
<b>Immunogen</b>	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
<b>Positive control</b>	WB: Mouse and rat brain lysate. Human cerebellum lysate IP: Human brain lysate.
<b>General notes</b>	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none"> <li>- High batch-to-batch consistency and reproducibility</li> <li>- Improved sensitivity and specificity</li> <li>- Long-term security of supply</li> <li>- Animal-free production</li> </ul> For more information <a href="#">see here</a> . Our RabMAb <sup>®</sup> technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to <a href="#">RabMAb<sup>®</sup> patents</a> .

### Properties

<b>Form</b>	Liquid
<b>Storage instructions</b>	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C long term. Avoid freeze / thaw cycle.
<b>Storage buffer</b>	pH: 7.2 Preservative: 0.01% Sodium azide Constituents: 59% PBS, 0.05% BSA, 40% Glycerol (glycerin, glycerine)
<b>Purity</b>	Protein A purified
<b>Clonality</b>	Monoclonal
<b>Clone number</b>	EPR14137

IsotypeIgG

Applications

**The Abpromise guarantee** Our **Abpromise guarantee** covers the use of ab182572 in the following tested applications. The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

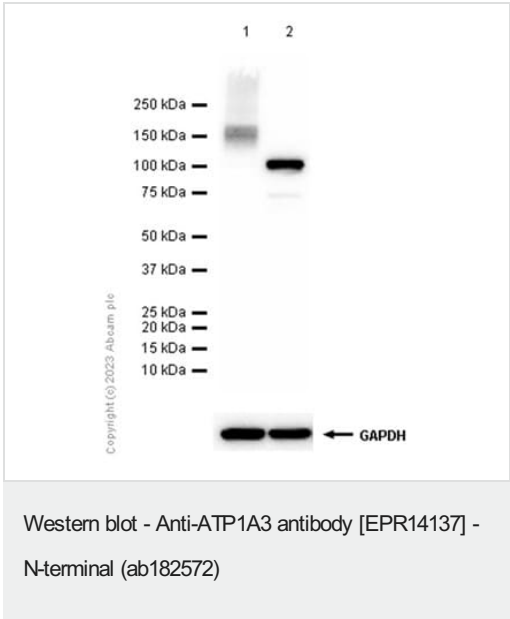
Application	Abreviews	Notes
IP		1/30.
WB		1/1000 - 1/10000. Detects a band of approximately 100-150 kDa (predicted molecular weight: 111 kDa).

**Application notes** Is unsuitable for ICC/IF.

Target

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 ions, providing the energy for active transport of various nutrients.
Involvement in disease	Dystonia 12 Alternating hemiplegia of childhood 2 Cerebellar ataxia, areflexia, pes cavus, optic atrophy, and sensorineural hearing loss
Sequence similarities	Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIC subfamily.
Cellular localization	Cell membrane.

Images



**All lanes :** Anti-ATP1A3 antibody [EPR14137] - N-terminal (ab182572) at 1/1000 dilution

**Lane 1 :** Human cerebellum lysate boiled

**Lane 2 :** Human cerebellum lysate unboiled

Lysates/proteins at 20 µg per lane.

**Secondary**

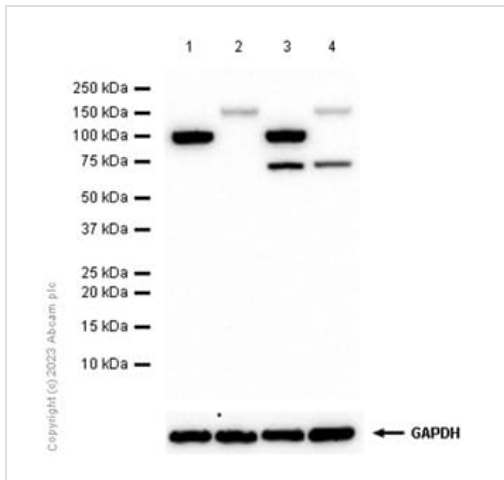
**All lanes :** Goat Anti-Rabbit IgG (HRP) with minimal cross-reactivity with human IgG at 1/2000 dilution

**Predicted band size:** 111 kDa

**Observed band size:** 102 kDa

**Exposure time:** 1 second

Blocking and diluting buffer: 5% NFDM/TBST



Western blot - Anti-ATP1A3 antibody [EPR14137] - N-terminal (ab182572)

**All lanes :** Anti-ATP1A3 antibody [EPR14137] - N-terminal (ab182572) at 1/2000 dilution

**Lane 1 :** Mouse brain lysate unboiled

**Lane 2 :** Mouse brain lysate boiled

**Lane 3 :** Rat brain lysate unboiled

**Lane 4 :** Rat brain lysate boiled

Lysates/proteins at 20 µg per lane.

### Secondary

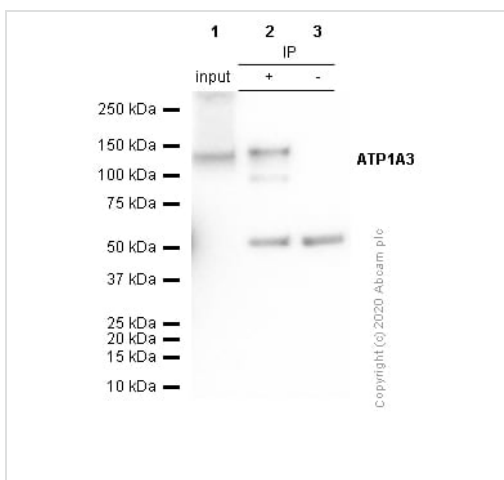
**All lanes :** Goat Anti-Rabbit IgG H&L (HRP) ([ab97051](#)) at 1/20000 dilution

**Predicted band size:** 111 kDa

**Observed band size:** 102 kDa

**Exposure time:** 5 seconds

Blocking and diluting buffer: 5% NFDM/TBST



Immunoprecipitation - Anti-ATP1A3 antibody [EPR14137] - N-terminal (ab182572)

ATP1A3 was immunoprecipitated from 0.35 mg human brain lysate 10 ug with ab182572 at 1/30 dilution (2ug in 0.35mg lysates).

Western blot was performed on the immunoprecipitate using ab182572 at 1/1000 dilution. VeriBlot for IP Detection Reagent (HRP)([ab131366](#)) was used at 1/5000 dilution.

Lane 1: human brain lysate 10 ug

Lane 2: ab182572 IP in human brain lysate

Lane 3: Rabbit monoclonal IgG ([ab172730](#)) instead of ab182572 in human brain lysate

Blocking and dilution buffer and concentration: 5% NFDM/TBST.

Exposure time: 5 seconds

### Why choose a recombinant antibody?



**Research with confidence**  
Consistent and reproducible results



**Long-term and scalable supply**  
Recombinant technology



**Success from the first experiment**  
Confirmed specificity



**Ethical standards compliant**  
Animal-free production

Anti-ATP1A3 antibody [EPR14137] - N-terminal  
(ab182572)

**Please note:** All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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