


Product datasheet

Anti-alpha 1 Sodium Potassium ATPase (phospho Y10) antibody [EPR2375(2)] ab124677

Recombinant RabMAb

[1 References](#) [2 Images](#)

Overview

Product name	Anti-alpha 1 Sodium Potassium ATPase (phospho Y10) antibody [EPR2375(2)]
Description	Rabbit monoclonal [EPR2375(2)] to alpha 1 Sodium Potassium ATPase (phospho Y10)
Host species	Rabbit
Tested applications	Suitable for: WB Unsuitable for: Flow Cyt, ICC/IF or IHC-P
Species reactivity	Reacts with: Human Predicted to work with: Mouse, Rat 
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	HeLa cell lysate, treated with Pervanadate.
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: <ul style="list-style-type: none">- High batch-to-batch consistency and reproducibility- Improved sensitivity and specificity- Long-term security of supply- Animal-free production For more information see here . Our RabMAb [®] technology is a patented hybridoma-based technology for making rabbit monoclonal antibodies. For details on our patents, please refer to RabMAb[®] patents .

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.2 Preservative: 0.05% Sodium azide Constituents: 40% Glycerol (glycerin, glycerine), 9.85% Tris glycine, 50% Tissue culture supernatant
Purity	Protein A purified
Clonality	Monoclonal

Clone number EPR2375(2)
Isotype IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab124677 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
WB		1/10000 - 1/50000. Detects a band of approximately 100 kDa (predicted molecular weight: 113 kDa).

Application notes Is unsuitable for Flow Cyt, ICC/IF or IHC-P.

Target

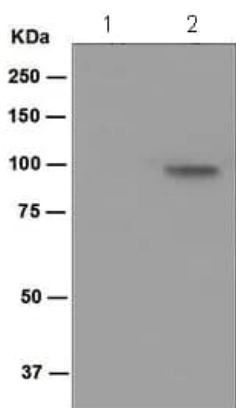
Function This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport of various nutrients.

Sequence similarities Belongs to the cation transport ATPase (P-type) (TC 3.A.3) family. Type IIC subfamily.

Post-translational modifications Phosphorylation on Tyr-10 modulates pumping activity.

Cellular localization Cell membrane. Melanosome. Identified by mass spectrometry in melanosome fractions from stage I to stage IV.

Images



Western blot - Anti-alpha 1 Sodium Potassium ATPase (phospho Y10) antibody [EPR2375(2)] (ab124677)

All lanes : Anti-alpha 1 Sodium Potassium ATPase (phospho Y10) antibody [EPR2375(2)] (ab124677) at 1/10000 dilution

Lane 1 : HeLa cell lysate

Lane 2 : HeLa cell lysate, treated with Pervanadate

Lysates/proteins at 10 µg per lane.

Secondary

All lanes : Goat anti-Rabbit HRP at 1/2000 dilution

Predicted band size: 113 kDa

Observed band size: 100 kDa

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-alpha 1 Sodium Potassium ATPase (phospho Y10) antibody [EPR2375(2)] (ab124677)

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

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