abcam

Product datasheet

Anti-Sodium Potassium ATPase antibody - Plasma Membrane Marker ab58475

★★★★★ 1 Abreviews 24 References 2 Images

Overview

Product name	Anti-Sodium Potassium ATPase antibody - Plasma Membrane Marker
Description	Rabbit polyclonal to Sodium Potassium ATPase - Plasma Membrane Marker
Host species	Rabbit
Tested applications	**Suitable for:** IHC-P, WB
Species reactivity	**Reacts with:** Human
Immunogen	Synthetic non-phosphopeptide derived from human Sodium Potassium ATPase around the phosphorylation site of serine 16 (A-V-S^{P}-E-H).
General notes	The Life Science industry has been in the grips of a reproducibility crisis for a number of years. Abcam is leading the way in addressing this with our range of recombinant monoclonal antibodies and knockout edited cell lines for gold-standard validation. Please check that this product meets your needs before purchasing. If you have any questions, special requirements or concerns, please send us an inquiry and/or contact our Support team ahead of purchase. Recommended alternatives for this product can be found below, along with publications, customer reviews and Q&As

Properties

Form	Liquid
Storage instructions	Shipped at 4°C. Store at +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Stable for 12 months at -20°C.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 50% Glycerol, 0.87% Sodium chloride Without Mg+2 and Ca+2
Purity	Immunogen affinity purified
Clonality	Polyclonal
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab58475 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
IHC-P		1/50 - 1/100.
WB		1/500 - 1/1000. Detects a band of approximately 113 kDa (predicted molecular weight: 113 kDa).

Target

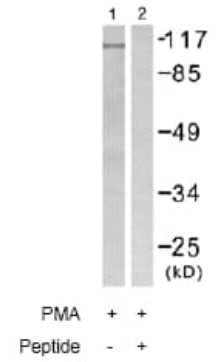
Function This is the catalytic component of the active enzyme, which catalyzes the hydrolysis of ATP coupled with the exchange of sodium and potassium ions across the plasma membrane. This action creates the electrochemical gradient of sodium and potassium ions, providing the energy for active transport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

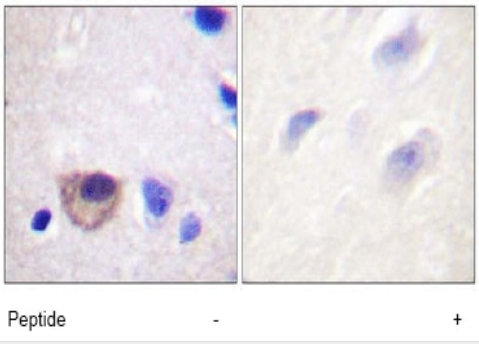


Western blot - Anti-Sodium Potassium ATPase antibody - Plasma Membrane Marker (ab58475)

All lanes : Anti-Sodium Potassium ATPase antibody - Plasma Membrane Marker (ab58475) at 1/500 dilution

Lane 1 : 293 cell extracts treated with PMA (125ng/ml, 30mins)
Lane 2 : 293 cell extracts treated with PMA (125ng/ml, 30mins) with immunising peptide

Predicted band size: 113 kDa
Observed band size: 113 kDa



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Anti-Sodium Potassium ATPase antibody - Plasma Membrane Marker (ab58475)

ab58475 at 1/50 dilution staining Sodium Potassium ATPase in human brain by Immunohistochemistry, Paraffin embedded tissue, in the absence or presence of the immunising peptide.

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