abcam

Product datasheet

Biotin Anti-Sodium Potassium ATPase antibody [EP1845Y] - Plasma Membrane Loading Control ab198366

Recombinant RabMAb

2 Images

Overview

Product name	Biotin Anti-Sodium Potassium ATPase antibody [EP1845Y] - Plasma Membrane Loading Control
Description	Biotin Rabbit monoclonal [EP1845Y] to Sodium Potassium ATPase - Plasma Membrane Loading Control
Host species	Rabbit
Conjugation	Biotin
Tested applications	**Suitable for:** IHC-P
Species reactivity	**Reacts with:** Human **Predicted to work with:** Mouse, Rat, Tilapia
Immunogen	Synthetic peptide. This information is proprietary to Abcam and/or its suppliers.
Positive control	IHC-P: normal human cerebral cortex tissue sections
General notes	This product is a recombinant monoclonal antibody, which offers several advantages including: - 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 +4°C short term (1-2 weeks). Upon delivery aliquot. Store at -20°C. Avoid freeze / thaw cycle. Store In the Dark.
Storage buffer	pH: 7.40 Preservative: 0.02% Sodium azide Constituents: PBS, 30% Glycerol (glycerin, glycerine), 1% BSA

Purity	Protein A purified
Clonality	Monoclonal
Clone number	EP1845Y
Isotype	IgG

Applications

The Abpromise guarantee Our **Abpromise guarantee** covers the use of ab198366 in the following tested applications.

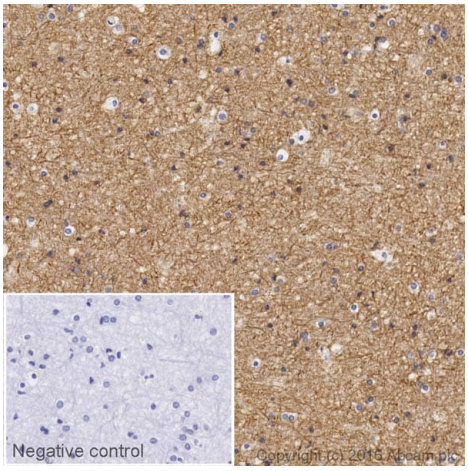
The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
IHC-P		1/100. Perform heat mediated antigen retrieval with citrate buffer pH 6 before commencing with IHC staining protocol.

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.

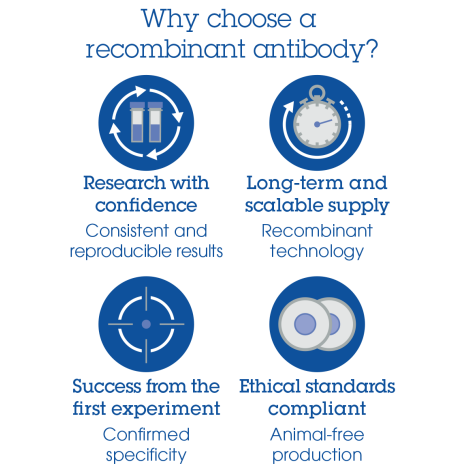
Images



Immunohistochemistry (Formalin/PFA-fixed paraffin-embedded sections) - Biotin Anti-Sodium Potassium ATPase antibody [EP1845Y] - Plasma Membrane Loading Control (ab198366)

IHC image of Sodium Potassium ATPase staining in a section of formalin-fixed paraffin-embedded normal human cerebral cortex, performed on a Leica BOND™. The section was pre-treated using heat mediated antigen retrieval with sodium citrate buffer (pH6, epitope retrieval solution 1) for 20mins, before blocking of endogenous biotin using **ab64212**. The section was then incubated with ab198366, 1/100 dilution, for 15 mins at room temperature and detected using an HRP conjugated ABC system. DAB was used as the chromogen. The section was then counterstained with haematoxylin and mounted with DPX. The inset negative control image is taken from an identical assay without primary antibody.

For other IHC staining systems (automated and non-automated) customers should optimize variable parameters such as antigen retrieval conditions, primary antibody concentration and antibody incubation times.



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